

Technology in Miniature
American Textile Patent Models
1819–1840

Barbara Suit Janssen



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ABSTRACT

Janssen, Barbara Suit. *Technology in Miniature: American Textile Patent Models 1819–1840. Smithsonian Studies in History and Technology*, number 49, 147 pages, 87 numbered figures, 5 unnumbered portraits, 1 table, 1988.—To obtain a patent in the nineteenth century, an inventor had to submit a written specification, a drawing, and a model to the United States Patent Office. This catalog is concerned with the textile patent models in the collection of the Division of Textiles of the National Museum of American History, Smithsonian Institution. Forty early models and their accompanying drawings are discussed.

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Foreword

The U.S. Congress decided in 1908 that the Patent Office no longer needed to keep its huge collection of patent models and initiated a process of dispersal that has continued under different auspices to the present. For close to half a century, the Patent Office had required models, preferably not more than twelve inches square, with each patent application. In 1870, the new patent law dropped the model requirement, yet the commissioner of patents continued to request models for another ten years. But these little emblems of a mechanical age would soon be made redundant by the growth of invention in electricity and chemistry, inventions that were often impossible to “model.” Furthermore the Patent Office could barely contain the quarter million or so models it had collected over the years. The Smithsonian Institution, once in 1908 and again in 1926, accessioned a total of eight thousand of those it deemed the most important, that is, those that had a known impact or were the products of prominent inventors. The rest have been scattered to the winds. Some have found their way to museums; others, through auctions and sales, are now in private hands; many others have been lost, damaged, destroyed. For most curators of technology collections the fate of the patent models is nothing less than a national scandal. But why should anyone care? Why should we collect and study patent models?

In the nineteenth century such questions would never have been asked. The Patent Office displayed its models prominently, even grandly. Objects of veneration, examples of creativity, they spoke eloquently of national pride. They were never kept simply as a record of invention, nor just as a means for disclosing originality. The models were icons of American ingenuity, symbols of a smug, triumphant century. For many collectors today—museums included—the models retain such piously nationalist meanings. Throughout this century, however, our unquenchable capacity for novelty has reduced their import to the status of curios, quaint reminders of a bygone and simpler time. But just what scholarly questions do they help answer?

Historians—even those who work in museums—are not very good at posing questions about objects. We are more comfortable with words, with books, with manuscripts. Objects are more difficult to “read,” they do not reveal their meanings easily. More accurately, perhaps, objects reveal their surface meanings (form, style, even use) all too easily; but it is their latent or hidden meanings, the discovery of which constitutes the most creative form of twentieth-century inquiry, that remain obscure. So it is not surprising that historians of technology have yet to make significant research use of patent models. Yet the models continue to compel and provoke scholarly interest.

Patent models comprise an unrivaled visual and tactile record of ingenuity, of obsession, of achievement, of failure. They show us how things worked in ways that cannot be as easily nor as fully grasped through drawings and descriptions. These models embody particular visions of mechanical perfectability. They offer insight into the minds of inventors which, when combined with other sources, could provide a clue to the nonverbal thinking now believed to have been central to nineteenth-century invention. And they constitute an extraordinary record of change. Taken as a collection, the patent models are evidence of technological evolution: of change and mutation, of continuity and incremental change, like so many mollusks or sea urchins—not the conceptual model of unilinear progress popular during the nineteenth century. Each model stands at a particular moment in history, expressing both change and continuity, expressing a vocabulary of technical choice—form, motion, purpose—that is as much a social construction as it is the product of individual genius. Once established, technical forms like the power loom

and the spinning frame can persist with a remarkable tenacity. Such forms both structure and confine change, and the formal properties of a technology are best studied in the machines and models themselves.

Catalogs like the following will assist further research on patent models. Barbara Suit Janssen has assembled detailed information on the forty earliest patent models in the Division of Textiles collection, while also providing a full listing of the Division's patent-model holdings. With over 4000 models, the Division's collection is probably the largest in the country devoted to a single industry. Those doing research on nineteenth-century textile technology will find this an indispensable resource and, I trust, a spur to developing research questions.

Gary Kulik, Chairman
Department of Social and Cultural History
National Museum of American History
Smithsonian Institution

Technology in Miniature

American Textile Patent Models

1819–1840

Barbara Suit Janssen

Introduction

HISTORICAL BACKGROUND

The USNM collection of patent models at the National Museum of American History's Division of Textiles numbers over 4000. This catalog presents a sampling of nineteenth-century technology by illustrating the earliest models in the Division's collection. The 40 models included in this catalog may be viewed as a microcosm in which the inventions range from obscure and impractical to famous and innovative. They represent the period 1819–1840. This catalog begins the systematic documentation of the Division's patent models. The group of forty was chosen for its manageable size (considering the amount of conversation, photography, and research required) within the given time and money constraints. The main focus of this catalog is descriptive; no extensive evaluation of the devices has been attempted. Further scholarship is necessary to determine the impact, or lack thereof, of these inventions on the technology or environment (social and/or economic) for which they were intended.

The issuance of a patent is no guarantee that an invention will ever be commercially marketed, and it is likely that the majority of this collection was never manufactured. There were many obstacles to prevent a patented idea from becoming a commercially successful product. Primary among these was that many of the patented inventions were either impractical, overly complex, or made obsolete by a better idea. Nevertheless, the fame and success of inventions like Eli Whitney's cotton gin and Elias Howe's sewing machine spurred Americans on to patent almost everything imaginable. This

mania for patenting is illustrated, in the textile patent model collection, by its diversity and number of models. The USNM collection, which dates into the early twentieth century, includes commonplace items, such as clothespins (40 models) and baskets (50 models); complex machines, like looms (450 models) and sewing machines (750 models); and fabrics (135 design or construction patents represented). The abundance of patent models testifies to the enthusiasm of Americans to embrace a new idea, build a new machine, and mechanize America from the factory to the home (Table 1).

Fifty patent models in the Division of Textile's collection were acquired in 1908 from the Patent Office. However, the main body of the Division's patent models were chosen by Dr. Frederick Lewton, curator of the unit then called Crafts and Industries. This selection took place in 1926 after Congress had decided to dispense with the Patent Office's museum of patent models. Dr. Lewton was one of two curators of the Smithsonian to select the most important patent models for the U.S. National Museum. He examined the 150,000 models and chose approximately 15,000 for the Smithsonian. Although he selected a broad range of models, his area of specialty was textile machinery and, in particular, sewing machines. Thus his selection of models relating to this area of invention was particularly thorough. The remaining models were sold to private individuals.

By the time the Smithsonian acquired its model collection, the models had endured two major fires at the Patent Office. One fire in 1836 destroyed all the models (7000) that had been submitted up to that date. A second fire in 1877 destroyed 87,000 models out of a collection of 200,000. Of those destroyed, 12,000 were models of inventions that were denied

TABLE 1.—Numbers of patents granted annually by the U.S. Patent Office from 1790 to 1840 (from P.J. Frederico, editor, *Journal of the Patent Office Society*, 18(July 1936):230–231).

| Year | No. of Patents | Year | No. of Patents | Year | No. of Patents |
|------|----------------|------|----------------|------|----------------|
| 1790 | 3 | 1807 | 99 | 1824 | 228 |
| 1791 | 33 | 1808 | 158 | 1825 | 304 |
| 1792 | 11 | 1809 | 203 | 1826 | 323 |
| 1793 | 20 | 1810 | 223 | 1827 | 331 |
| 1794 | 22 | 1811 | 215 | 1828 | 368 |
| 1795 | 12 | 1812 | 238 | 1829 | 447 |
| 1796 | 44 | 1813 | 181 | 1830 | 544 |
| 1798 | 28 | 1815 | 173 | 1832 | 474 |
| 1799 | 44 | 1816 | 206 | 1833 | 586 |
| 1800 | 41 | 1817 | 174 | 1835 | 630 |
| 1801 | 44 | 1818 | 222 | 1835 | 752 |
| 1802 | 65 | 1819 | 156 | 1836 | 708 |
| 1803 | 97 | 1820 | 155 | 1837 | 436 |
| 1804 | 84 | 1821 | 168 | 1838 | 515 |
| 1805 | 57 | 1822 | 200 | 1839 | 404 |
| 1806 | 63 | 1823 | 173 | 1840 | 458 |

patents and thus not considered important. The 1836 fire was by far the more catastrophic since not only were all the models lost, but 9000 patent drawings and all the records of patent applications and grants were also destroyed. These records were irreplaceable, and Congress considered the loss so great that \$100,000 was appropriated to restore the drawings and the most important models. The Patent Office conferred with inventors when and where possible to ensure an accurate reproduction of each invention. This restoration program continued until 1849, at which time several thousand drawings and models had been restored. The restored patents were given a series of numbers called the x-series; they had not been numbered previously.

There are six models from the x-series in this catalog that were restored by the Patent Office. Although Eli Whitney's reconstructed model of the cotton gin is in the collection of the Division of Textiles, it was incorrectly reconstructed by the Patent Office and the restored drawings repeat the same mechanical defect. For these reasons, this model is not germane to this study and is not discussed in this catalog.

The other models, patents 162 to 1902, fall in the regular consecutive numbering system adopted in July 1836. They are the actual models that the inventor submitted along with drawings and written specifications.

Inventors placed great importance on their models and viewed a well-executed model as the key element in obtaining a patent. Therefore, many times the inventor would hire a professional modelmaker to turn a 2-dimensional paper drawing into a 3-dimensional miniature machine. The inventor could also turn to other skilled craftsmen, such as blacksmiths, watchmakers, or cabinetmakers to fabricate models. However, depending on the ability of the inventor, who was often a mechanic, the model would often be homemade.

How a model was constructed depended mostly on what the patented feature was. The inventor had a choice of showing the complete machine or only his patented device. For instance, Charles R. Harvey's loom for weaving haircloth (490) is a complete miniature of a full-sized loom; whereas, the check and plaid loom (5193x) of Burt, Boyd, and Boyd shows the patented feature, the shuttle boxes, set in the bare framework of a loom. Other models could be the regular size of their commercial counterparts, such as James Baldwin's loom shuttle (1485); or, in the case of sewing machines, a commercial machine was often submitted as the model with the inventor merely adding his patented feature. It was not essential that the model work; however, many of them did. An example of this is Hiram Wheeler's spinning wheel (patent 710). In general, the models tended to adhere to requirements of the Patent Office that they not exceed a foot in any dimension.

After 1880, the Patent Office dropped the requirement for submitting a model, except in unusual circumstances. This action was taken primarily because the Patent Office had run out of space in which to store or display the models. It was also true that inventions were becoming more complex and less amenable to representation by models. Once the requirement for submission of a model was rescinded, the decline of a large number of professional modelmakers was assured.

COMPILING THE CATALOG

For the purpose of producing this catalog, several steps were undertaken. The first step was physically dealing with the models: selecting, locating, conserving, and photographing. The next step involved researching the inventor and invention. This step required accessing materials from a variety of sources. A logical starting point was the National Archives' collection of patent drawings and files of patent applications. Currently, the patent drawings are stored in Washington, D.C., and the patent application files are stored in Suitland, Maryland. Since the location of these records may change, the National Archives suggests that researchers always check for current locations, and that specific references beyond that of acknowledging the National Archives not be made. Another resource for researching patent specifications for the years 1790–1906 is available on microfilm from Research Publications, Inc., New Haven, Connecticut, under the title "United States Patents."

The patent drawings that are included in this catalog are divided into two basic groups: the x-series and the utility series. The x-series are the drawings and models that were restored by the Patent Office after the 1836 fire. The utility series consists of the original drawings and models that are consecutively numbered patents beginning in July 1836 and continuing to the present. In both sets, the drawings not only illustrate the invention in detail, but sometimes offer a vignette of the period complete with people in the process of using the invention.

There are two guides available from the National Archives that can be used to identify particular x-series patent drawings: The "Name and Date List" records the x-series numbers consecutively and includes the inventor's name and date of patent. The other guide, "Inventors of Restored Patents List," arranges the inventors alphabetically with the x-series number following each name. However, neither list provides a name or description of the invention. Thus, if one wished to study drawings of a particular type of invention, these lists would not be helpful.

Two other publications are useful if one approaches patents from the subject matter standpoint. The first was compiled by Edmund Burke, *List of Patents for Inventions and Designs Issued by the United States, from 1790 to 1847*. This book classifies patents by subject (according to class) and includes a separate list of patentees. The second publication is an index and guide to the microfilm edition of *Early Unnumbered United States Patents 1790-1836*. This guide indexes the patents alphabetically by class, by subject, by patentee, and by date. Although both of these publications are helpful in leading one to patent information, neither includes the x-series of patent numbers.

In comparison to the situation of incomplete classification, the patent listings after 1836 are well indexed. Various publications are available that provide this information, the most useful of which are probably the numerous volumes of the *Annual Report of the Commissioner of Patents* and the *Subject-Matter Index of Patents for Inventions Issued by the United States Patent Office from 1790 to 1873, Inclusive* (three volumes). The *Annual Reports*, starting in 1841, contain a patent listing arranged by either subject (class), patentee's name and/or patent number. The latter publication condenses the patent lists from 1790 to 1873 in an alphabetical form according to the subject of invention.

A shortcut to requesting copies of patent specifications from the Patent Office and a major timesaver can be provided by a library that has a microfilm series of the patent specifications. The National Museum of American History has such a set, which dates from 1790 to 1906. The post-1836 patent specifications are easy to locate by patent numbers. The pre-1836 patents can be located by using the guide *Early Unnumbered United States Patents 1790-1836*.

The patent application files in the National Archives are another source of information dealing with patents dating after the 1836 fire. Unfortunately, information for patents (1837-1840) in this catalog is, in general, disappointing. A patent application file typically contains a handwritten specification signed by the inventor and the official printed specification and drawing. The original specification usually varies from the final printed specification. If the patent examiner rejected certain claims by the inventor, the file often contains letters

from the patentee's attorney or the patentee explaining or amending the patent claim. The name of the patent examiner is usually written on the patent application jacket. For the patents discussed in this catalog, the examiner was either Charles M. Keller or Thomas P. Jones.

It is the prospect of finding unexpected information that leads one to investigate these files. For instance, interesting details include a petition by Erastus Bigelow to Henry Ellsworth, Patent Commissioner, concerning his loom patent (546):

...paid his Treasury fee and made application for a patent for the above invention somewhere about the first of November 1836 and his papers and model were destroyed by the conflagration of the Patent Office in December...he therefore prays that due notice will be taken on the reception of these his second set of papers and model and his patent be issued forthwith.

and Alden Sibley's remarks as to the advantages (both economic and mechanical) of using his calico printing machine (patent 823).

One area in which there is room for more research is the study of local histories and genealogies found in the Library of Congress. They merit attention for the sketches about individuals and industries of various towns and cities in the United States. In summary, this catalog presents details of 40 early American textile inventions that were granted patents. These details generally include photographs of the models and drawings with a short narrative, as well as occasional photographs of inventors. The Appendices include basic information on additional models.

ACKNOWLEDGMENTS

I wish to express my appreciation to various staff members of the Smithsonian Institution and others. I particularly would like to thank Rita Adrosko, Curator of the Division of Textiles, Gary Kulik, Chairman of the Department of Social and Cultural History, Douglas Evelyn, Deputy Director, and Kendall J. Dood, U.S. Patent Office, for their encouragement and advice. Joan Horn, Smithsonian Institution Press, furnished excellent editorial assistance, which helped create a more accurate and consistent catalog. Robert L. Klinger and Donald W. Holst provided expert craftsmanship in restoring the patent models. Much appreciated typing assistance was provided by Linda MacLaughlin, Alice McKinney, Mary Jane Young, and Margaret McComb. I am indebted to my husband, Theodore Jon Janssen, whose logic and computer expertise were matched by his understanding and patience, and without whom this catalog might not have been realized. Special thanks are in order to The Ruth and Vernon Taylor Foundation, which provided funding for the Patent Model Data Base Project upon which this catalog is based.

RESTORED PATENT 5193x: Check and Plaid Power Loom

Issued August 19, 1828

Enoch Burt, Oliver D. Boyd, and
Amos H. Boyd

Manchester, Hartford Co., Connecticut

In their patent, Burt and the Boyds claimed the shifting and alternating of shuttles without stopping the motion of the power loom. The number of shuttle boxes corresponded to the number of colors in the check or plaid to be woven. They also patented

a stop motion which halted weaving by the action of a lever if the weft thread broke or the shuttle bobbin ran out of thread.

Scientific American credits "Rev. Enoch Burt, a man of splendid genius," with having taken out the first patent (5193x)

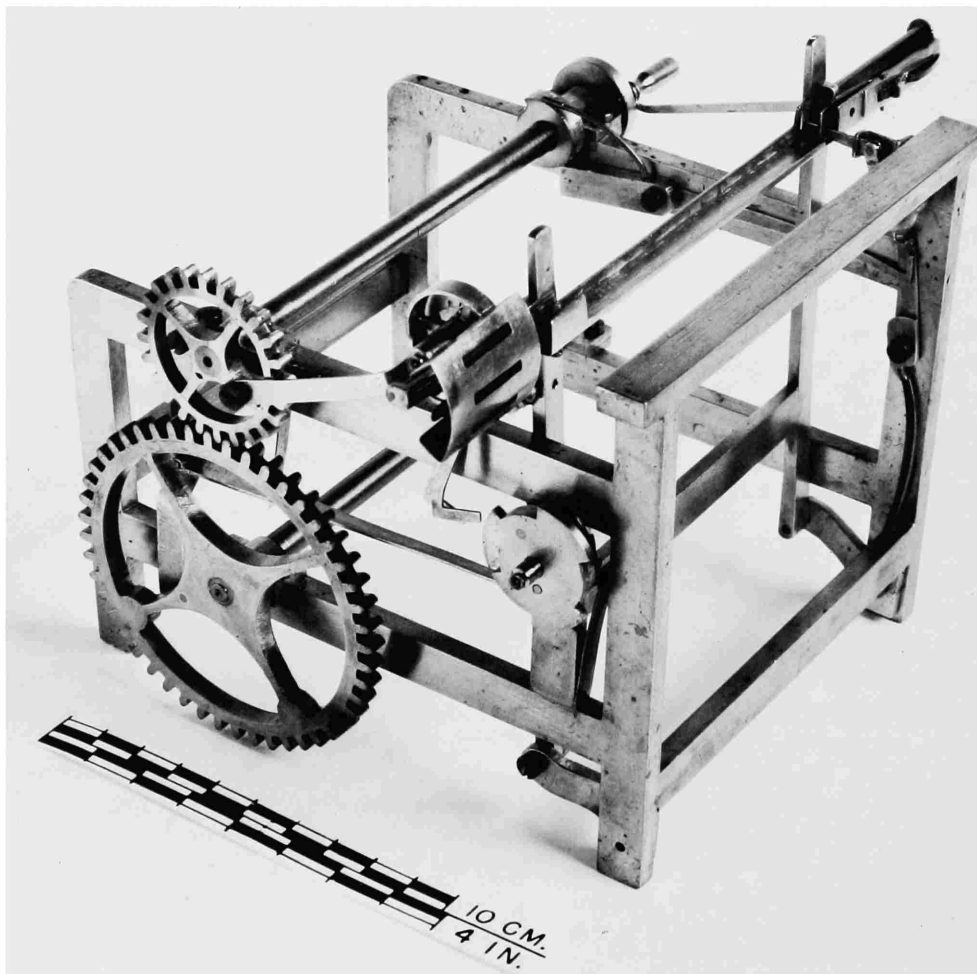


FIGURE 1.—Restored patent model 5193x. (S.I. neg. 80-12387)

for a gingham loom in 1828.¹ Burt also patented a cloth shearing machine in 1807, a check power loom in 1837, a rag dusting machine in 1838, a stop motion in 1845, and fancy check power looms in 1851 and 1854.²

Further notice was given to Burt and the Boyds for their 1828 patent in Gilroy's book, *The Art of Weaving*, published in 1844. In the book, he devoted two pages to describing the mechanics of their loom, but did not comment on the significance of their invention.³

¹*Scientific American*, 4(1849):165.

²*Ibid.*, 3(1848):149.

³Gilroy, *The Art of Weaving*, pages 402–403.

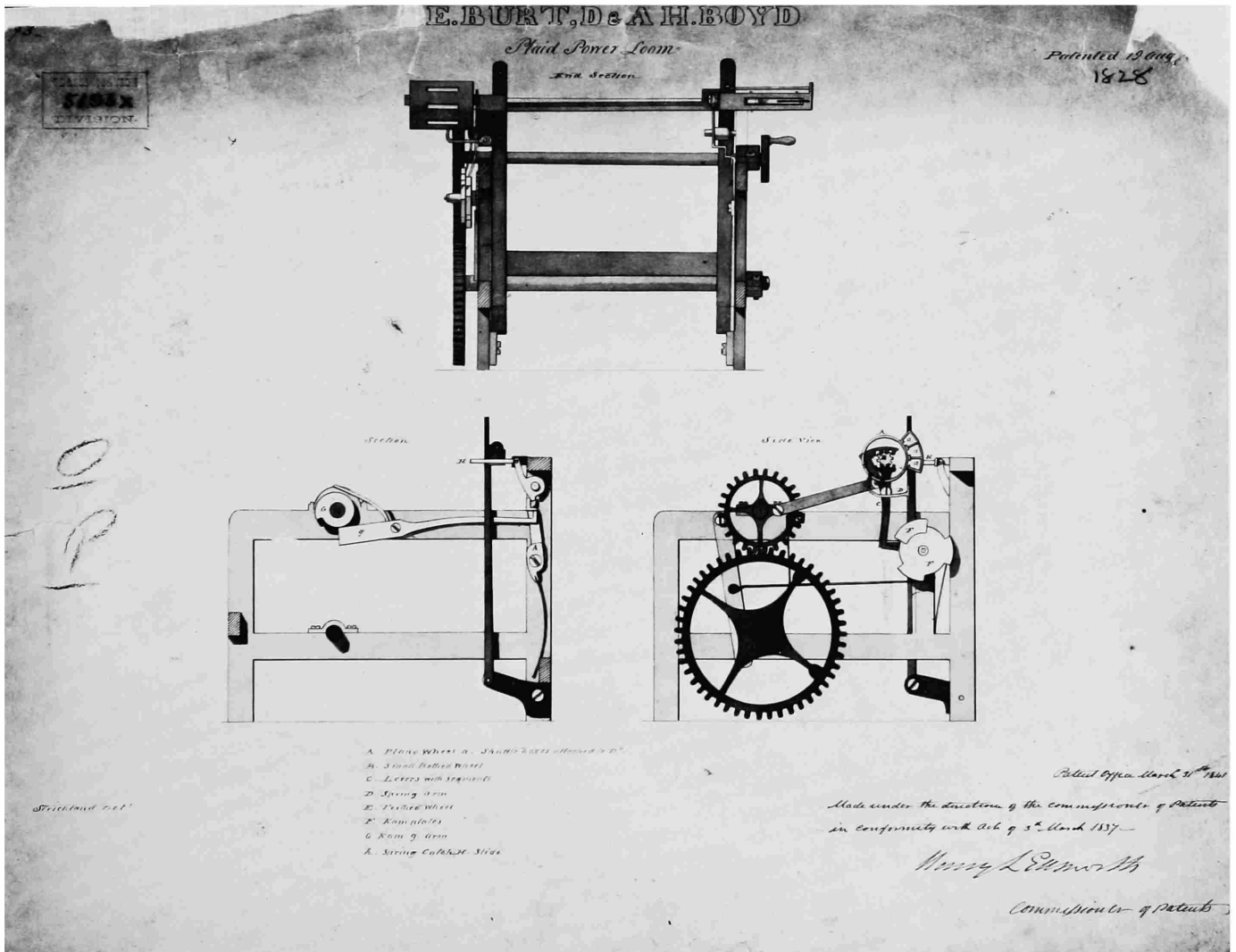


FIGURE 2.—Restored patent drawing 5193x. (U.S. National Archives)

RESTORED PATENT 8191x: Cloth Shearing Machine

Issued May 13, 1834

Reuben Daniels

Woodstock, Windsor Co., Vermont

In this patent, Daniels claimed the hollow construction of the cylinder to which the twisted shearing blades were soldered. He also claimed a method of fabricating the ledger blade and the cylinder with the shearing blades, which resulted in their

being suitably still enough to be sharpened by using emery and oil. He explains.

The method of grinding the ledger blade, and those on the revolving cylinder, is this: after making them as true as possible in any of the ordinary

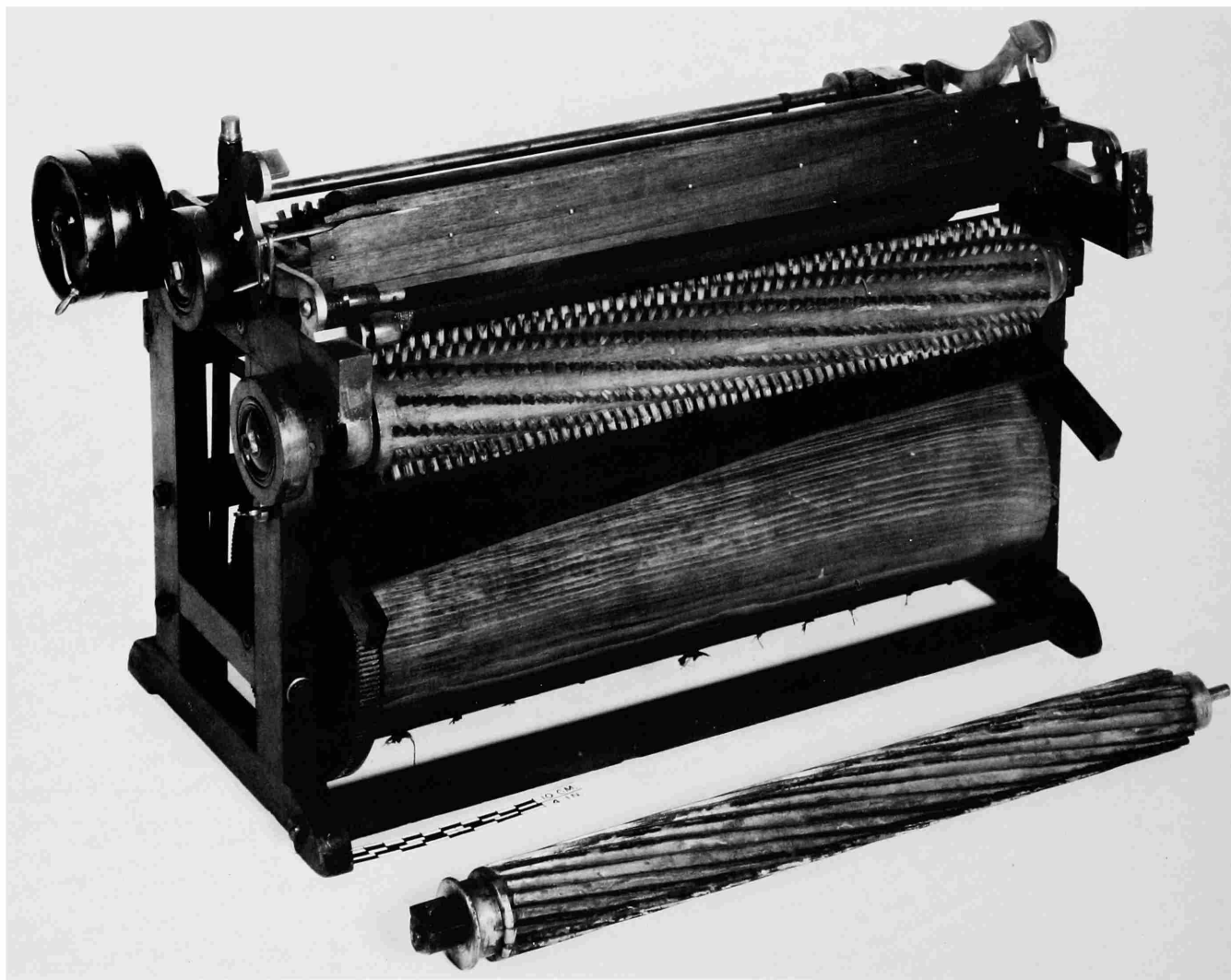


FIGURE 3.—Restored patent model 8191x; note the shearing cylinder in front of the model. (S.I. neg. 82-2563)

ways of grinding, they are to be put into their places in the machine, with adjusting screws to bring the ledger blade against the cylinder; a rapid motion is then to be given to the latter, which motion must be continued until they are perfectly fitted into each other; emery, or other suitable substance, being used in the grinding.¹

The editor of the *Journal of the Franklin Institute* commented:

Whether the foregoing modes of procedure are perfectly new, or to what extent they are so, we leave to the experience of those in the habit of using, and keeping in order, the kind of shearing machine to which they refer.²

Evidently the sharpening procedure was neither new nor successful. In Daniels' amended patent, reissued on August 22, 1834, he added a new sliding rest that saved the selvages from the wearing action of the blades and he reiterated the construction features; he did not include the technique of sharpening the blades.³

In 1831, Daniels, in partnership with others, formed a

machine shop under the name of R. Daniels and Co. Power for the shop machinery was furnished by water from a canal. The firm was successful in manufacturing carding machines, spinners, shearing machines, pickers, and other similar machines. They employed some fifty men. In 1836, The Burlington Mill Company bought \$24,000 worth of machinery from the firm. The R. Daniels and Co. partnership dissolved in 1842 due to unfavorable economic conditions. However, the shop continued under the management of others and kept producing Daniels' patented machines.⁴

¹*Journal of the Franklin Institute*, new series, 14(1834):394.

²*Ibid.*, new series, 15(1835):202.

³Henry S. Dana, *History of Woodstock, Vermont* (Boston and New York: Mifflin Co., 1889), pages 314–315.

⁴Calvert, "The Technology of the Woolen Cloth Finishing Industries," pages 57–59.

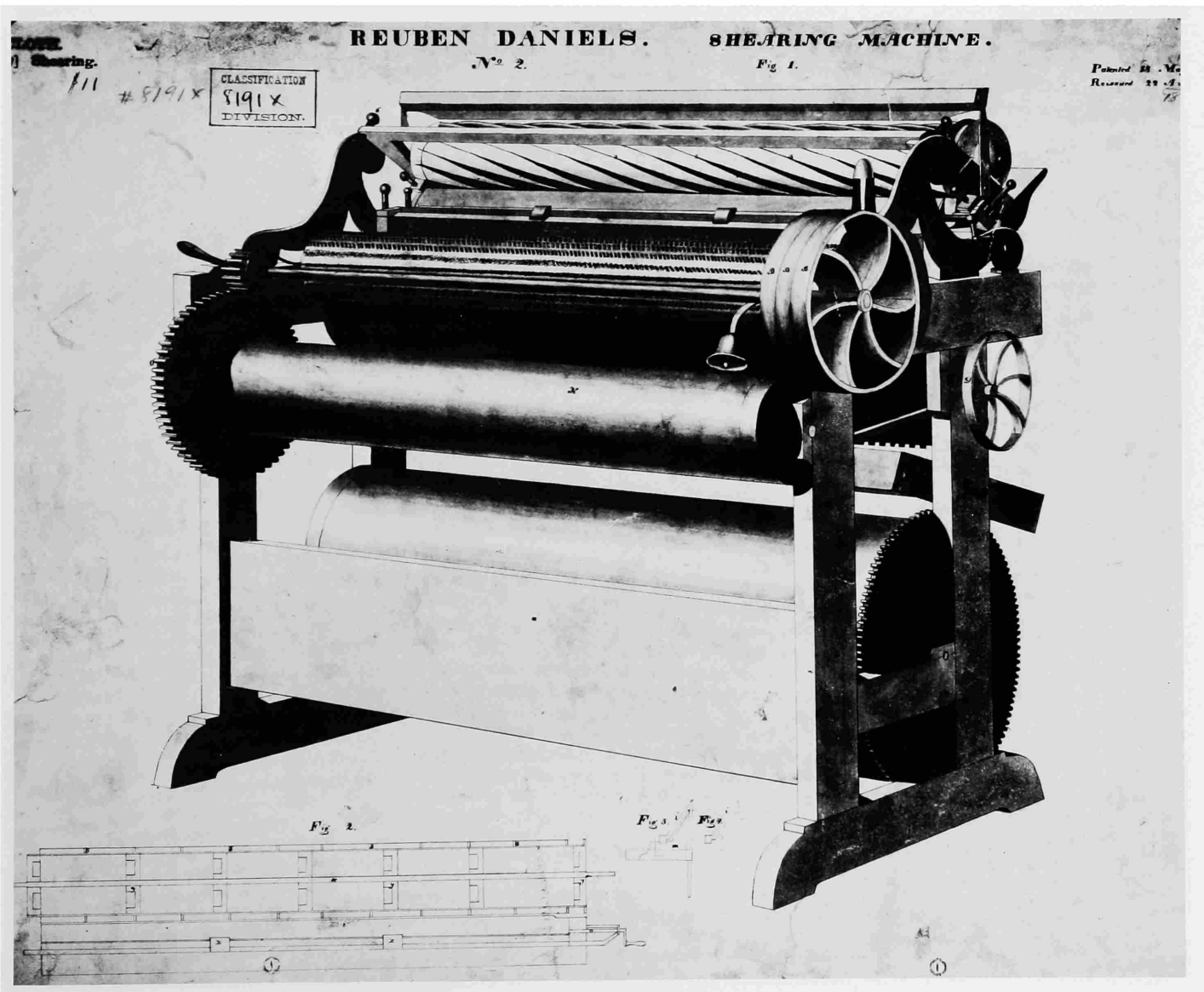


FIGURE 4.—Restored patent drawing 8191x. (U.S. National Archives)

RESTORED PATENT 8952^{1/2}X: Wool Combing Machine

Issued July 7, 1835

Samuel Couillard, Jr.

Boston, Suffolk Co., Massachusetts

Couillard's machine separated the different lengths of wool fibers and brought them together after separation. This was done by the use of a revolving tooth belt in combination with

a card or tooth cylinder. These features comprised his patent claims.¹

In 1835, the year of Couillard's invention, combing was

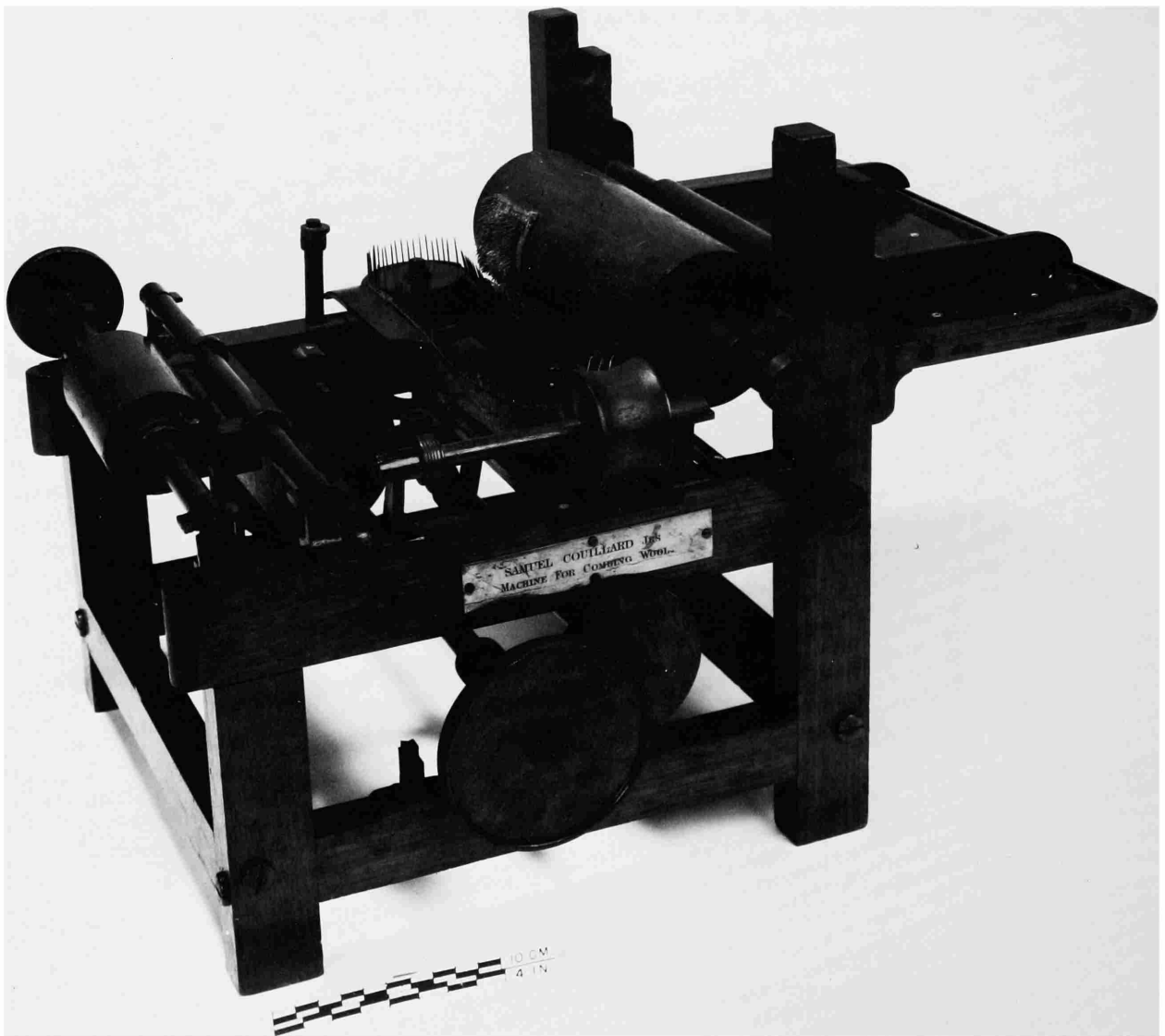


FIGURE 5.—Restored patent model 8952 1/2x. (S.I. neg. 81-4415)

commonly done by hand. His invention was thought to be responsible for introducing worsted manufacture in the United States. Michael H. Simpson of Boston made use of Couillard's machine in 1835. In 1854 and 1857, Simpson patented improvements to Couillard's comber, which increased its production by more than five-fold. This improved comber was widely used in the United States for preparing wool for carpets. John Hayes declared it was the best combing machine for the type of wool called "carpet-wools."²

Couillard's patent of July 7, 1835 was reissued several times: June 16, 1836 and on July 6, 1839 (as No. 9). From the issuance of the first patent forward, the New England Worsted Company is listed as the assignee. It can be assumed that this company was using his machine and probably employed Couillard while he was developing the inventions.³

¹Journal of the Franklin Institute, new series, 17(1836):121.

²Hayes, American Textile Machinery, page 54.

³Subject-Matter Index of Patents, 3:1857.

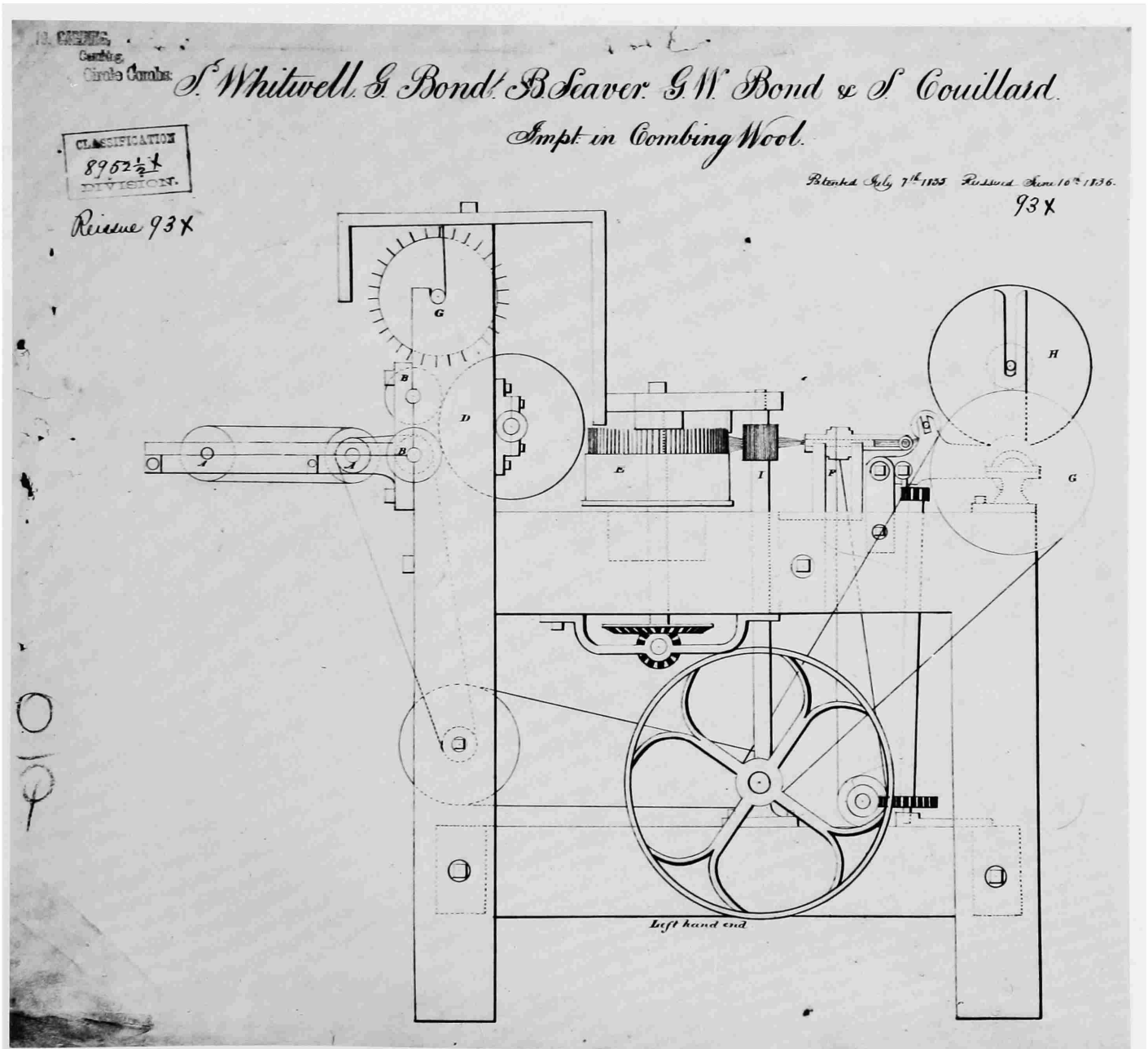


FIGURE 6.—Restored patent drawing 8952 1/2x. (U.S. National Archives)

RESTORED PATENT 9098x: Wool and Flax Combing Machine

Issued September 18, 1835

William W. Calvert

Lowell, Middlesex Co., Massachusetts

William W. Calvert, a machinist, accomplished the separation of short and long fibers by the combination of a bristle or wire brush, which brushed the wool into teeth set on a cylinder, and the prong of a "universal swiper," which caught the long fibers and drew them out to be carried on a friction belt into a drawing can. The long fibers were then in the form of continuous roping and were ready for spinning.

It was noted with approval in the *Journal of the Franklin Institute*, 1836:

We think that much ingenuity and skill are manifested in the mode adopted for carrying out the conceptions of the patentee, but we are unable to offer any opinion of the probable success of the plan, as it is, in the present instance especially, a question of experience.¹

In an account of the Patent Office fire of 1836, Calvert is mentioned as one of six American inventors (including Thorp and Couillard), whose patents pertained

to the spinning of cotton and wool and the manufacture of fabrics [which] reduced so much the expense of manufacture, that the British manufacturers

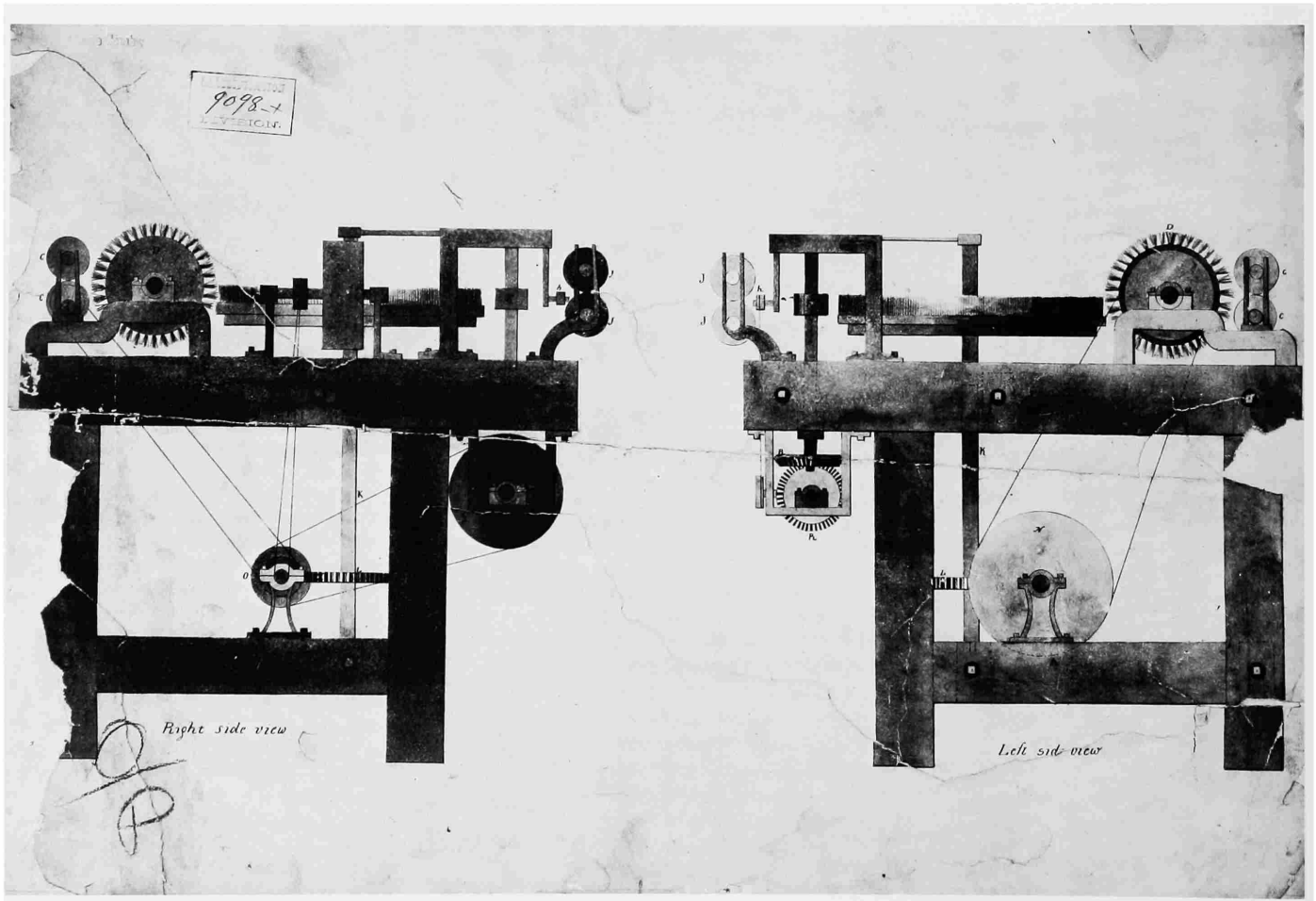


FIGURE 7.—Restored patent drawing 9098x. (U.S. National Archives)

were reluctantly obliged, at the expense of no little national pride, to lay aside their own machinery and adopt our improvements, to prevent our underselling them even in their own home market.²

George W. Lyman of Boston, Massachusetts, was the assignee.

¹*Journal of the Franklin Institute*, new series, 17(1836):261.

²U.S. Patent Office, *An Account of the Destruction by Fire*, pages 15–16.

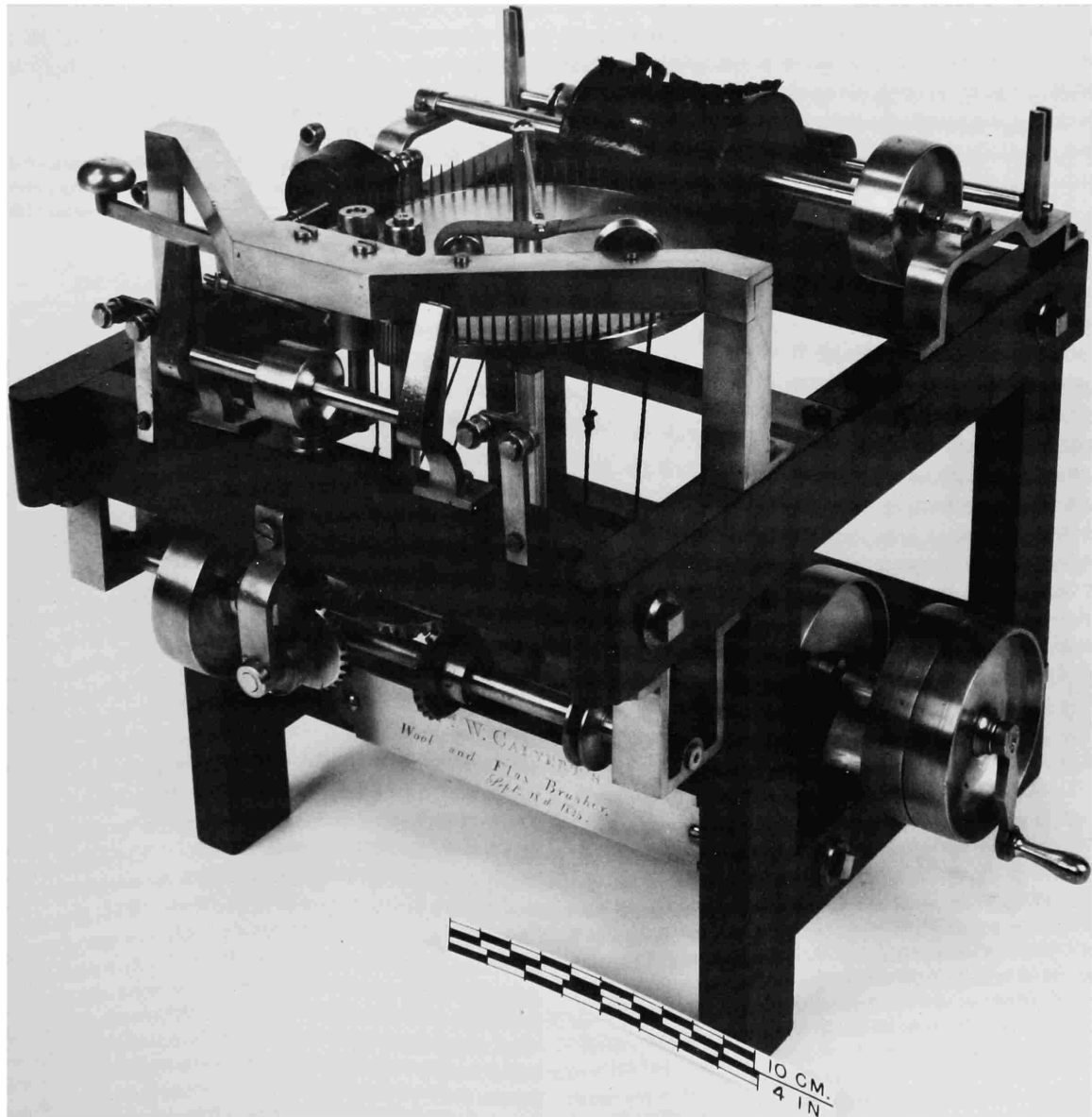


FIGURE 8.—Restored patent model 9098x. (S.I. neg. 81-4413)

RESTORED PATENT 9743x: Reeling, Spinning, and Twisting Silk Machine

Issued June 20, 1836

Adam Brooks

Scituate, Plymouth Co., Massachusetts

Brooks' machine was an improvement on an earlier patent of June 29, 1833 (7619x) for which the American Institute awarded him a gold medal at their tenth Annual Fair.¹ He was also awarded a diploma for his improvements at their twelfth Annual Fair in 1839.²

The machine drew silk from cocoons that were lying in a pan of hot water. The heat of the water caused the threads of the cocoons to unwind. Once the threads of the cocoons were loose, they were drawn through guiding wires, between rollers, over spindles, through rings, and then fastened to spools. Following this, the silk was reeled, spun, and twisted into sewing thread. John Thorp's patented ring spinner of 1828 (5280x) had replaced the flyers.³ Note that the stylized drawing (Figure 11) shows flyers, whereas the model (Figure 10) and the patent drawing (not illustrated) show Thorp's ring spinner.

Two members of the Committee on Science and the Arts of the Franklin Institute examined Brooks' patent. They found it "merely a combination in a compact and convenient form of several contrivances already known and in use."⁴ However, after they watched it work and examined the sewing thread that it produced, they were favorably impressed. Their opinion was that

its simplicity of form and efficiency of action adapt it in an especial manner for use in small establishments and families: enabling them by a moderate expenditure and with a degree of skill easily acquired to convert their raw material into a form suitable for domestic use or convenient for carriage to a market.⁵

The *Journal of the American Institute* also reported on Brooks' patent.

... It is not only a most ingenious invention, but, in their judgment, cannot fail of becoming eminently useful. It seems to solve the problem, which has induced great doubt, whether the culture of silk in the United States would be profitably prosecuted, from the difficulty of good reeling of silk from cocoons, without very considerable manual instruction. The committee is satisfied, that an ingenious female can almost immediately learn to reel on Mr. Brooks' machine, in a perfect manner.⁶

Silver medals were awarded to three women who used Brooks' patented machine. At the eighth Annual Fair of the American Institute, Harriet and Charlotte Stark, of Dunbarton, New Hampshire, won a medal for silk sewing thread.⁷ Brooks' wife was awarded a medal at the twelfth Annual Fair for a pair

of silk stockings and a printed silk handkerchief made "from a piece 40 yards, grown, spun and wove by herself."⁸

¹*Journal of the American Institute*, 3(1838):33.

²*Ibid.*, 4(1840):671.

³A. Michal McMahon, editor, *Records of the Committee on Science and the Arts of the Franklin Institute* (Wilmington: Scholarly Resources, Inc., and The Franklin Institute, 1977), microfilm, reel 2, file number 163.

⁴*Ibid.*

⁵*Ibid.*

⁶*Journal of the American Institute*, 2(1837):344-345.

⁷*Ibid.*, 1(1836):78.

⁸*Ibid.*, 4(1840):672.



FIGURE 9.—Harriet and Charlotte Stark proud of their prize winning skein of silk twist, which they had produced on Brooks' machine, displayed the silk skein and silver medal framed together. (S.I. neg. 80-20146)

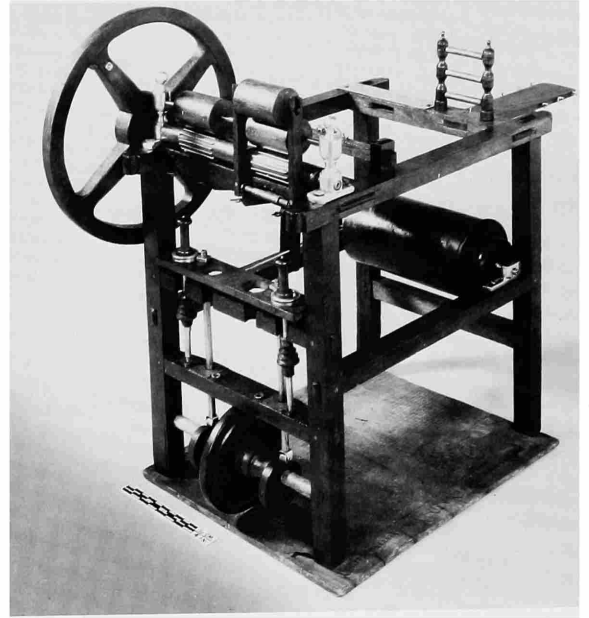


FIGURE 10.—Restored patent model 9743x. (S.I. neg. 80-16792)

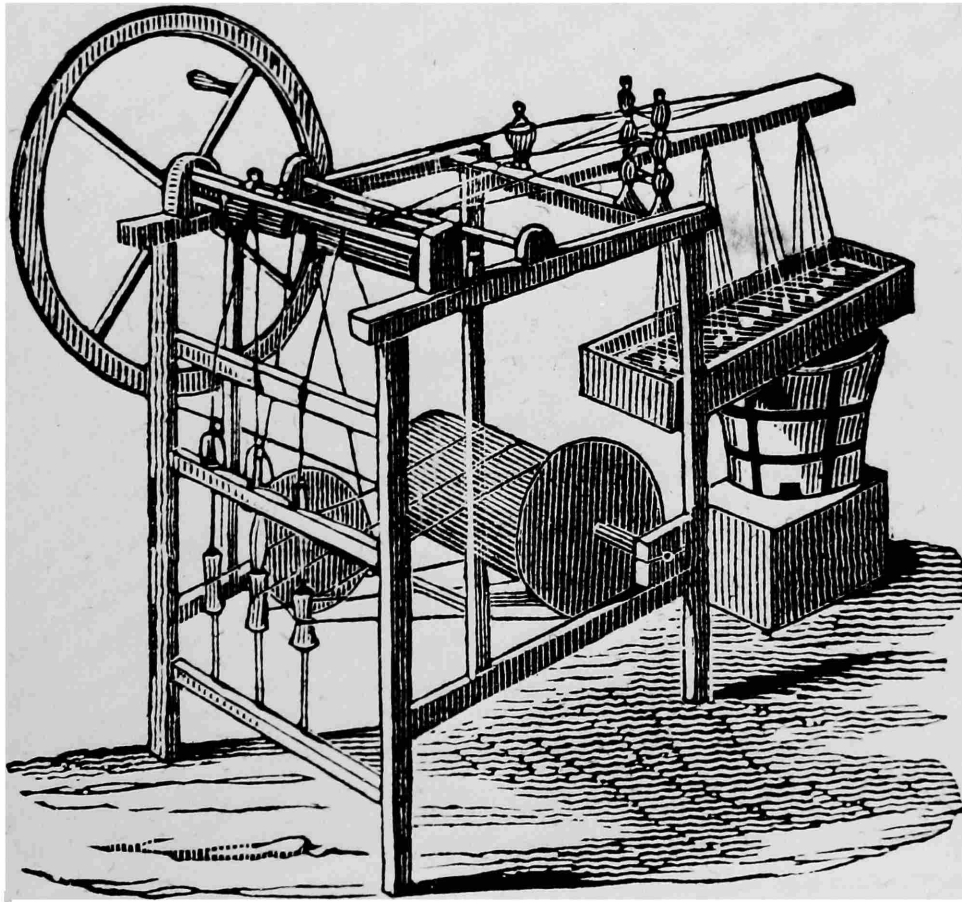


FIGURE 11.—This illustration of Brooks' patent accompanied an article in the *American Institute Journal*, 1838, which described how the machine worked.

PATENT 162: Loom Shuttle-Tongue

Issued April 17, 1837

Comfort B. Thorp

Smithfield, Providence Co., Rhode Island

Comfort Thorp was the younger brother of John Thorp, an important textile machinery inventor. Comfort worked for Thomas and William Fletcher in their mill near North Providence.¹ His patent improved the method of securing and holding the cop on the common power loom shuttle, preventing slips that would waste yarn and cause imperfections in the cloth. The patent model submitted by Thorp contained two types of tongues. One used a common round tongue with wire spiraled around it. The other consisted of a tongue with ridges or notches similar to the teeth of a saw blade.

¹Clark, "John Thorp," 124/125(1928):89.



FIGURE 12.—Patent model 162. The two loom shuttle-tongues were exhibited in a box, probably to keep them from being lost at the Patent Office. (S.I. neg. 80-12384)

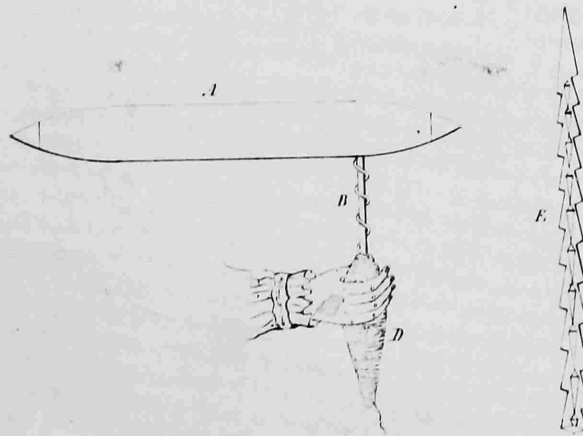
CLASSIFICATION
162
DIVISION.

1837-1838
Shuttles, Shuttle.

No. 162

C B Thorp
Shuttle tongue

Patented April 17, 1837.



- A The shuttle.
- B The screw tongue on which the worms or spiral projecting
knives are fixed for the purpose of preventing the cap from
sliding off.
- D The cap or sleeve.
- E The square tongue notched for the same purpose.

O
P

FIGURE 13.—Patent drawing 162. (U.S. National Archives)

PATENT 291: Self-adjusting Loom Temple

Issued July 22, 1837

Samuel P. Mason

Newport, Newport Co., Rhode Island

Temples are attachments on looms designed to keep the cloth at a uniform width during weaving. Self-acting temples required no adjustment as the cloth was woven, i.e., they automatically adjusted their position. The greater speed obtained with power-weaving made the use of self-acting temples a necessity.¹

The basic construction of Mason's temples was similar to other temples of the period. The patented feature of his temple concerned the arrangement of the parts by which the jaws or forceps were forced open and released their hold on the cloth.²

Mason patented other useful textile machinery. Perhaps the most notable were a speeder for roving cotton in 1830 and a

cotton whipper in 1834, which James Montgomery, in 1840, considered the best, cheapest, and simplest whipper that he had seen in factory use over a span of thirty years. There is no evidence that Samuel Mason was related to William Mason, who also invented a speeder for roving cotton in 1838 (see patent 724).³

¹Alfred Barlow, *The History and Principles of Weaving by Hand and by Power*, 2nd edition (London: Sampson Low, Marston, Searle, and Rivington, 1879), pages 88, 305–306.

²*Journal of the Franklin Institute*, new series, 21(1838):272.

³Lozier, "Taunton and Mason," pages 98, 100, 118, 232. Montgomery, *A Practical Detail of the Cotton Manufacture*, pages 26–28.



FIGURE 14.—Patent model 291. (S.I. neg. 80-15214)

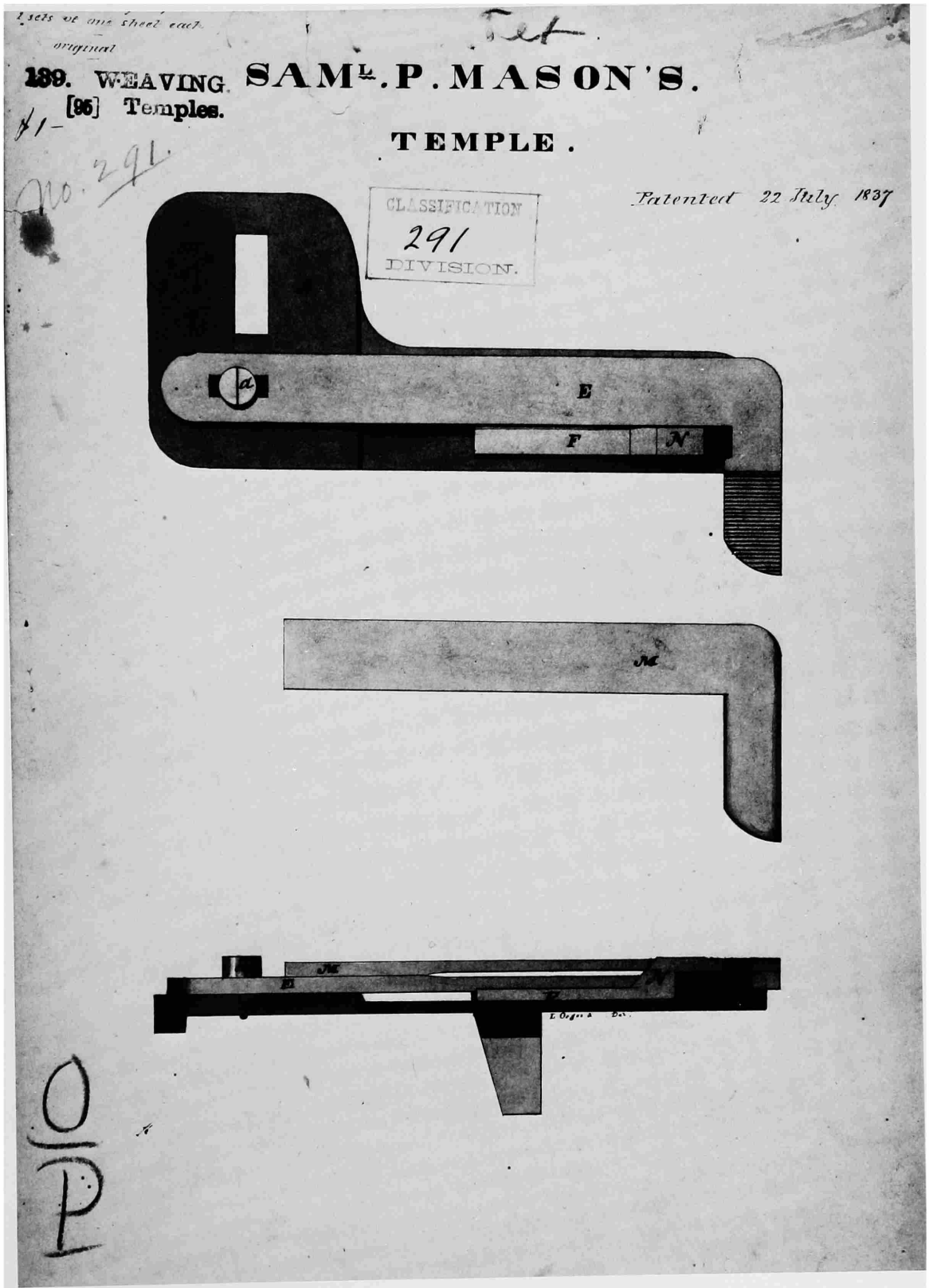


FIGURE 15.—Patent drawing 291. (U.S. National Archives)

PATENT 350: Cloth Napping Machine

Issued August 8, 1837

Benjamin Swasey

Mount Vernon, Kennebec Co., Maine

Swasey's patent concerned the setting of teazles in the wires of the large napping cylinder. He also claimed certain springs and levers that shifted the cloth rollers in and out of gear. This shifting of the cloth rollers caused the cloth to come in contact with the teazles as the cloth was wound forward and then disengaged the cloth from the teazles as the cloth rewound. In this way, the cloth could roll from one cylinder to another as

long as necessary to ensure a well-napped surface. An additional benefit was that the shifting of gears was accomplished without the "aid of a person to match and unmatch the gear work."¹ Tension on the cloth was kept even by friction bands on the ends of the cloth rollers together with hanging weights.

¹National Archives Record Group 241: Patent Application Files, patent 350.

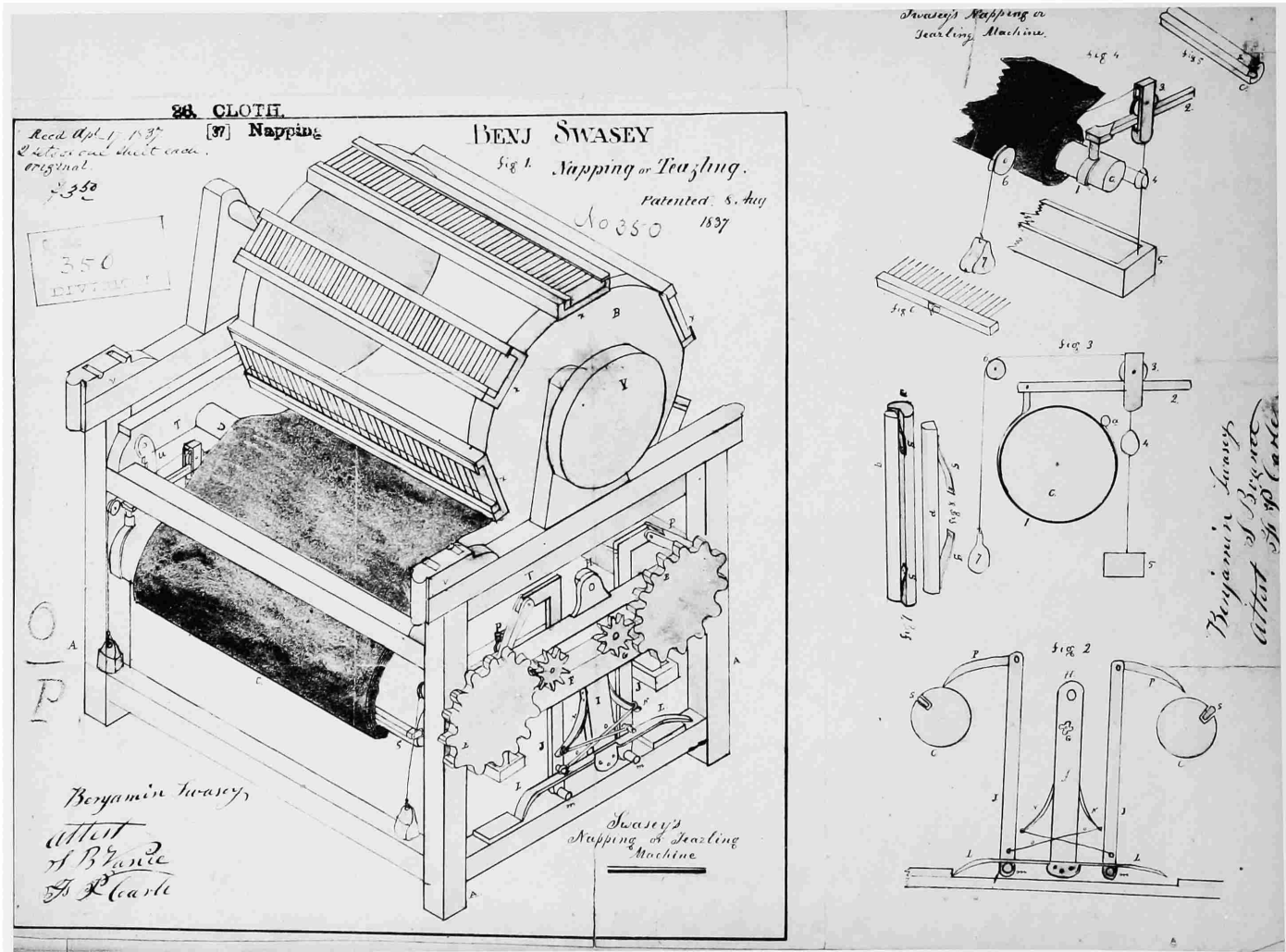


FIGURE 16.—Patent drawing 350. (U.S. National Archives)

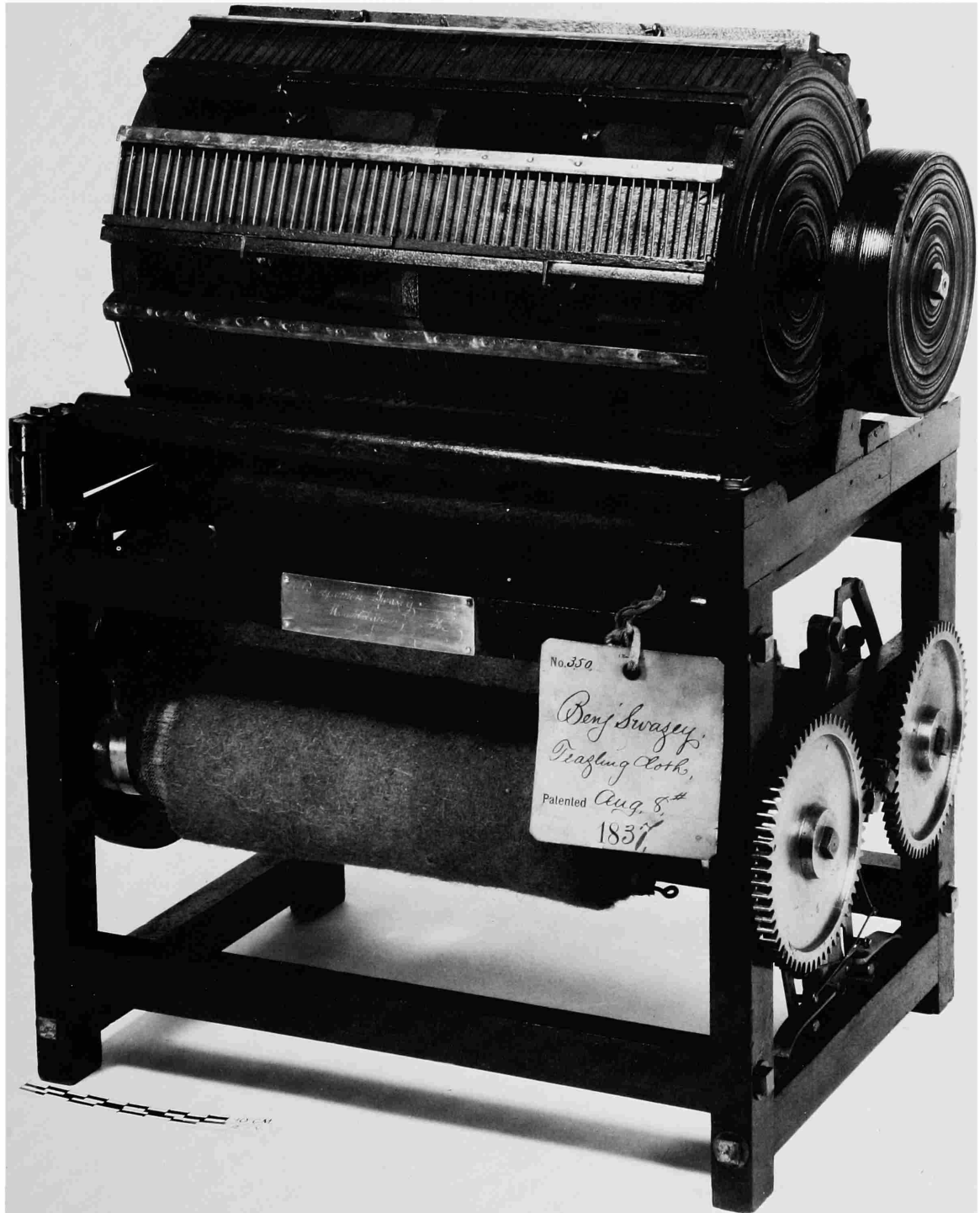


FIGURE 17.—Patent model 350. (S.I. neg. 81-13338)

PATENT 352: Doubling and Twisting Thread Machine

Issued August 15, 1837

John Golding

Dedham, Norfolk Co., Massachusetts

Golding specified that the frame of the doubling and twisting machine was to be constructed like any of the "modern" frames with gears and an eccentric or heart motion to guide the thread on the spool. His patent claim concerned the arrangement of the machinery that prevented wasting the thread if it broke. This was accomplished by stopping the spindle and throwing up the feeding-down roller.

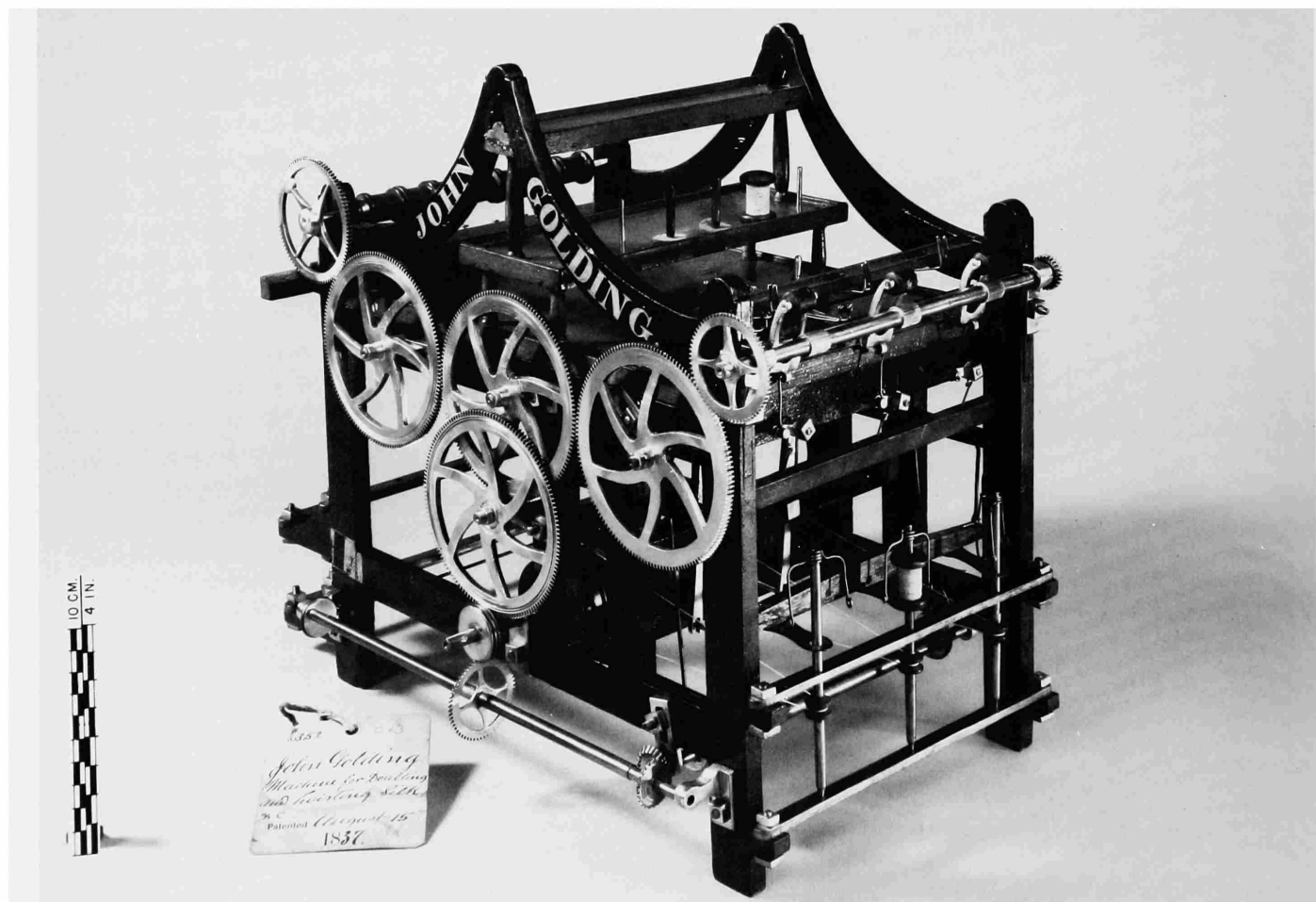


FIGURE 18.—Patent model 352. (S.I. neg. 80-15215)

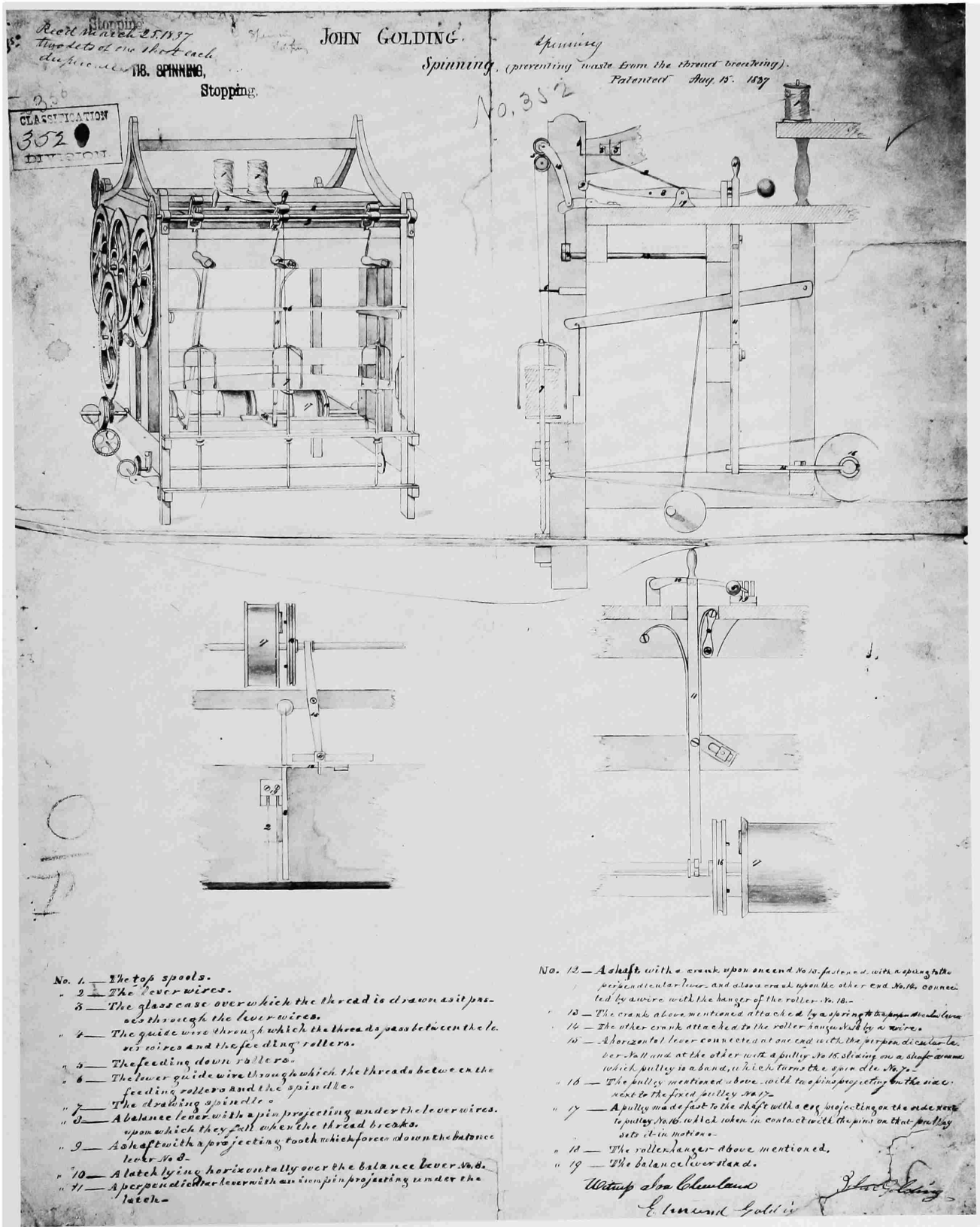


FIGURE 19.—Patent drawing 352. (U.S. National Archives)

PATENT 490: Hair Cloth Loom

Issued November 25, 1837

Charles R. Harvey

Poughkeepsie, Dutchess Co., New York

Weaving with horsehair was difficult and slow because the weaver had to select an individual horsehair for each weft and insert it into the warp. Harvey's loom was a step toward mechanizing this process. However, he only dealt with changing from a hand loom to a power loom, not with the problem of weaving with horsehair. Even in his patent specification, he mentioned that the "hook" (a simple wooden rod with a hook at one end by which the horsehair was drawn in to be woven) is "made in the usual way." Harvey detailed his improvements as the application of power to both the

movement of the hook and the operation of the loom overall.

At the tenth Annual Fair of the American Institute, in 1837, Harvey was awarded a gold medal for his "hair seating loom." *The Journal of the American Institute*, published in 1838, remarked that "this is the first application of power to weaving hair cloth; and concerning the extent of the article (hair cloth) now used for furniture, we think the loom is entitled to the highest consideration."¹

¹*Journal of the American Institute*, 3(1838):138.

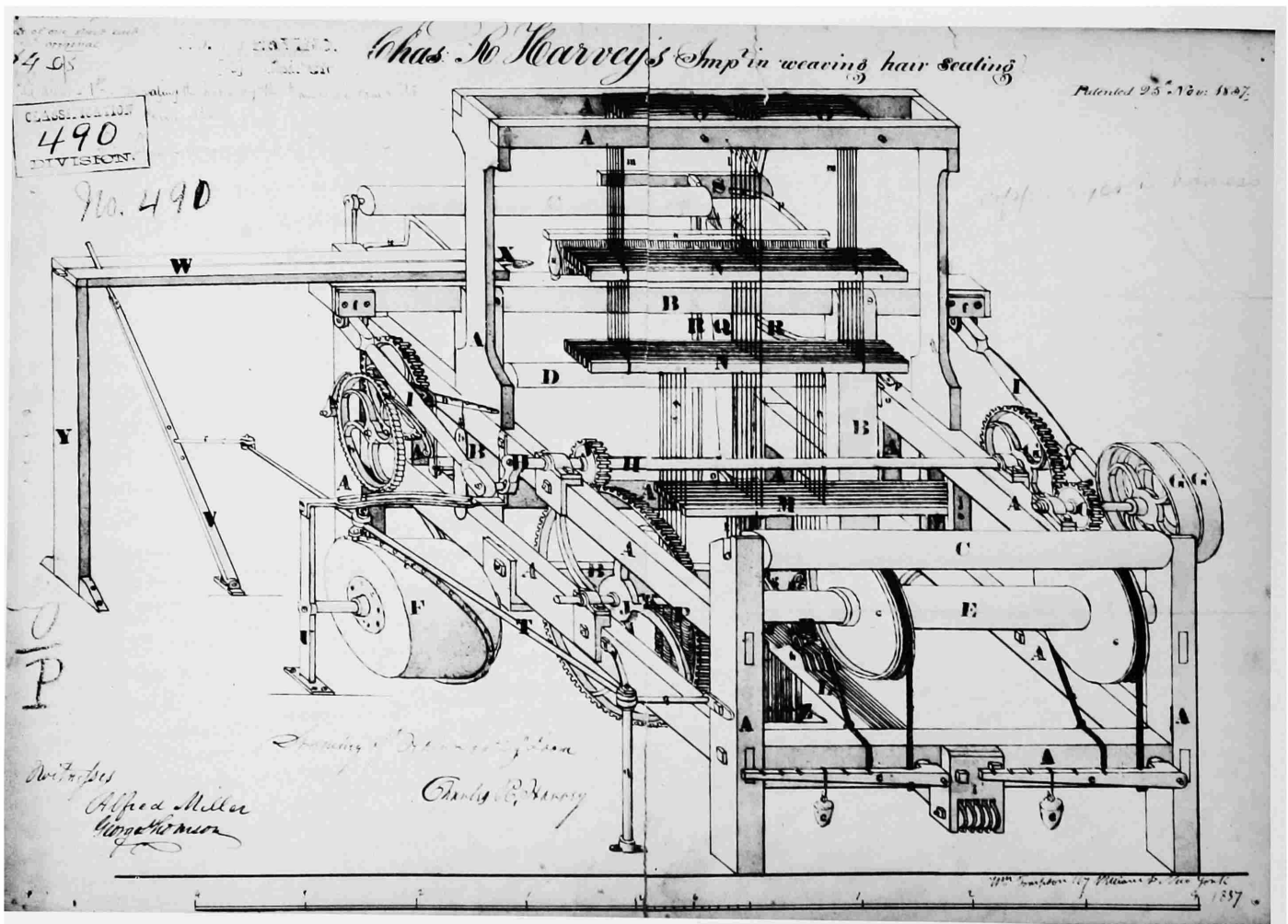


FIGURE 20.—Patent drawing 490. (U.S. National Archives)

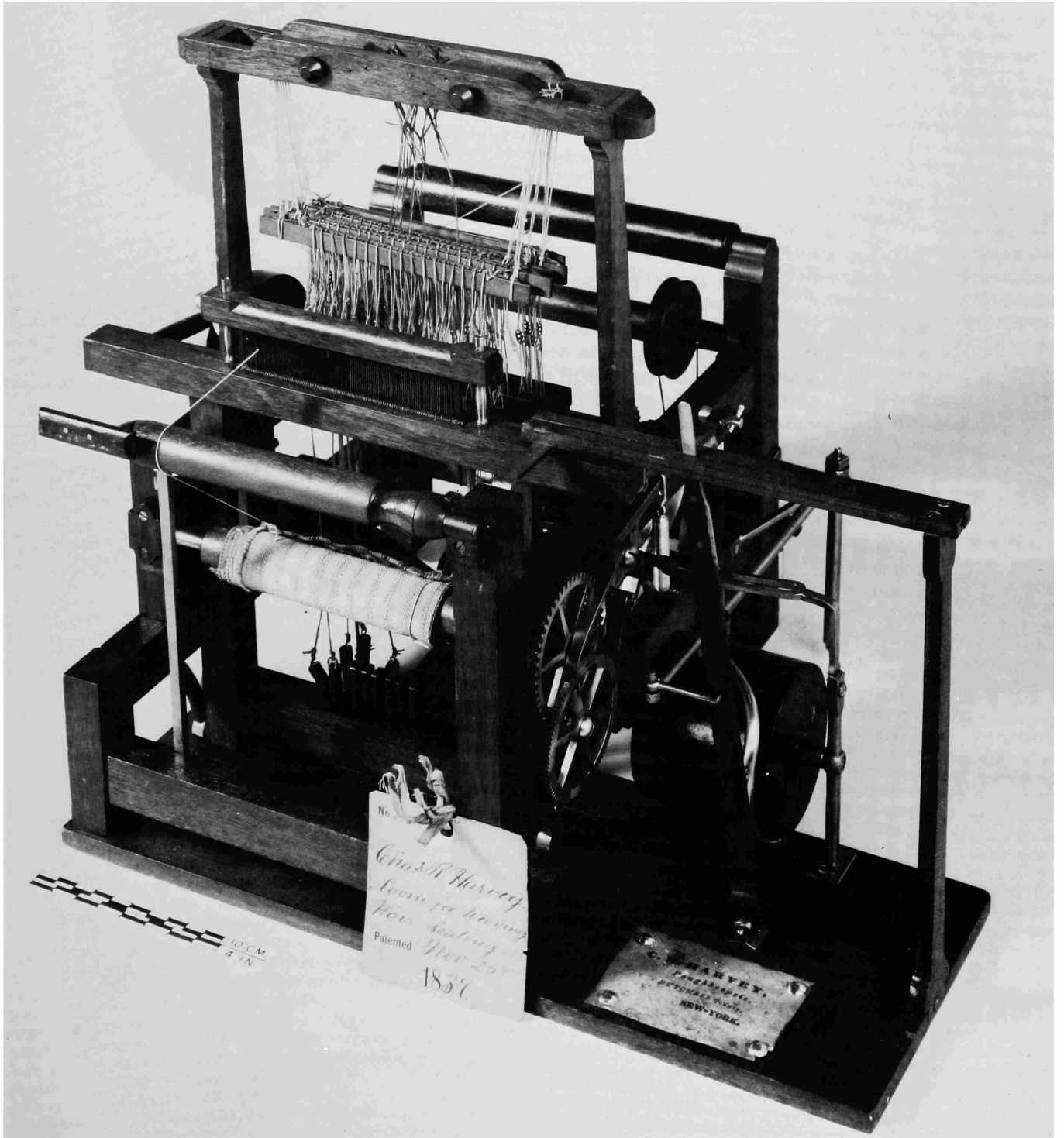


FIGURE 21.—Patent model 490. (S.I. neg. 80-16793)

PATENT 491: Fancy Power Loom

Issued November 25, 1837

William Crompton

Taunton, Bristol Co., Massachusetts



Before William Crompton's patent was adopted, the harnesses of power looms were controlled by cams. This arrangement limited the number of harnesses that could be utilized, which in turn limited the complexity of patterns that could be woven. In order to vary the pattern the cams had to be laboriously changed. Crompton's invention solved both of these problems. In his patent, an endless pattern chain was used, upon which rollers or pins could be variously placed to engage the harness levers (as had the cams) but which allowed any number of harnesses to be used and easily permitted the changing of patterns. Thus more elaborate designs could be easily woven on power looms.¹

William Crompton, an Englishman,² had only been in the United States a year, when he designed this loom. He was employed by Crocker and Richmond, a textile mill in Taunton, Massachusetts, which failed that same year. Crompton went back to England where he entered into the cotton manufacture with John Rostran, in whose name he took out a British patent for his loom. Later in 1839 Crompton returned to the United States to promote his looms. He met with success when the Middlesex Mills in Lowell, Massachusetts, invited him to alter his fancy cotton loom for the weaving of woolen fabrics. This he accomplished in 1840 and it was considered an important landmark for the woolen industry.³ Hayes quotes the Committee on Patents of the United States House of Representatives, 1878, that "upon the Crompton loom or looms based upon it, are woven every yard of fancy cloth in the world."⁴

In 1849, Crompton became incapacitated for work, but his son, George, carried on the business. After 1859, the Crompton Loom Works became one of the two largest fancy loom manufacturers in the United States.⁵

¹Cole, *The American Wool Manufacture*, 1:306-309. *Dictionary of American Biography* 4(1930):561-562.

²Photograph of William Crompton supplied courtesy of Crompton and Knowles Loom Works.

³Rita Adrosko, "The Cromptons." (In Peter C. Marzio, editor, *A Nation of Nations*, pages 203-207. New York: Harper and Row, 1976), pages 203-204.

⁴Hayes, *American Textile Machinery*, pages 50-51.

⁵Lozier, "Taunton and Mason," pages 172-177.

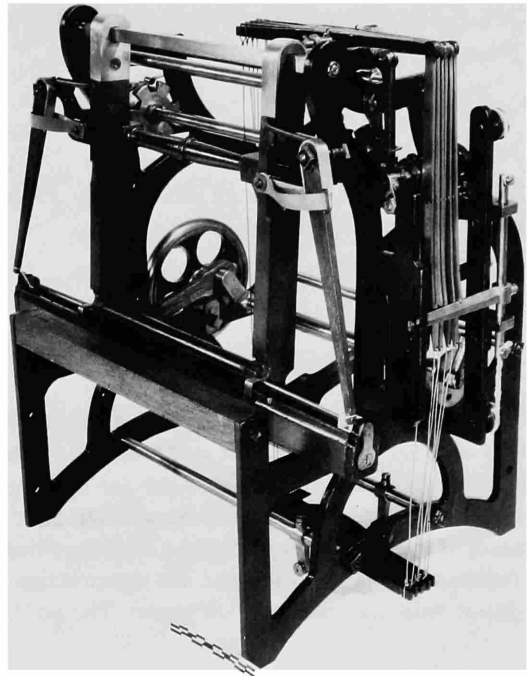
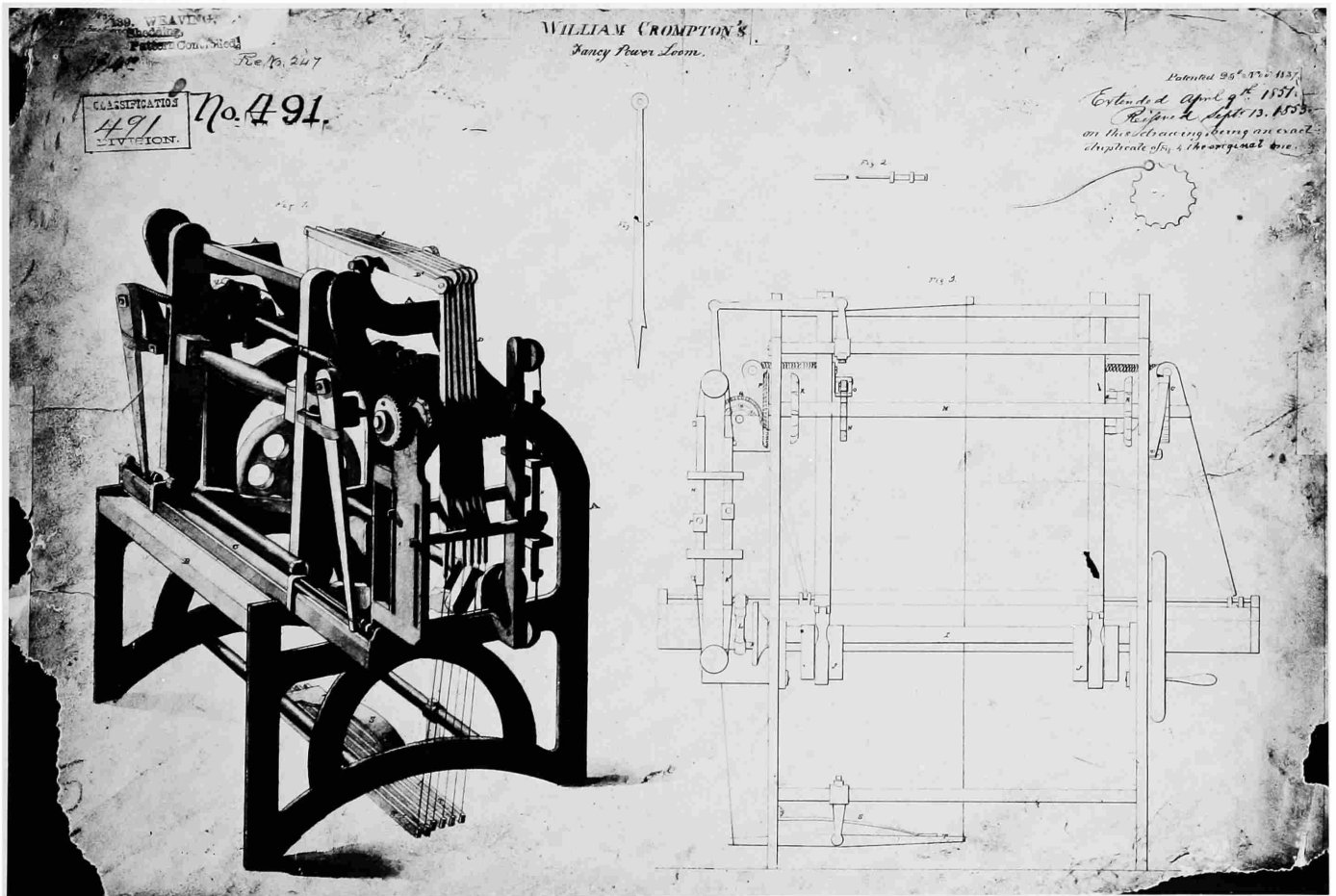


FIGURE 22.—Patent model 491. (S.I. neg. 81-5253)

FIGURE 23.—Patent drawing 491. (U.S. National Archives)



PATENT 544: Loom Heddles and Harness

Issued December 29, 1837

Benjamin Hartford and William B. Tilton

Enfield, Grafton Co., New Hampshire

Hartford and Tilton improved upon the construction of heddles by using strips of rolled flat metal with an eye punched through the middle of each strip to allow for the passage of warp yarns. Heddles were commonly constructed of cord. The replacement of metal for cord produced a more durable heddle. These one-piece metallic strips and the construction of the heddle frame were the basis of their patent. The heddles slid

on two rods and were attached to clasps that could be adjusted permitting the heddles to correspond to the part of the reed that was in operation.

The editor of the *Journal of the Franklin Institute* noted that "instead of the cord usually employed in making the harness, it is to be composed of strips of metal..."¹

¹*Journal of the Franklin Institute*, new series, 22(1838):244.

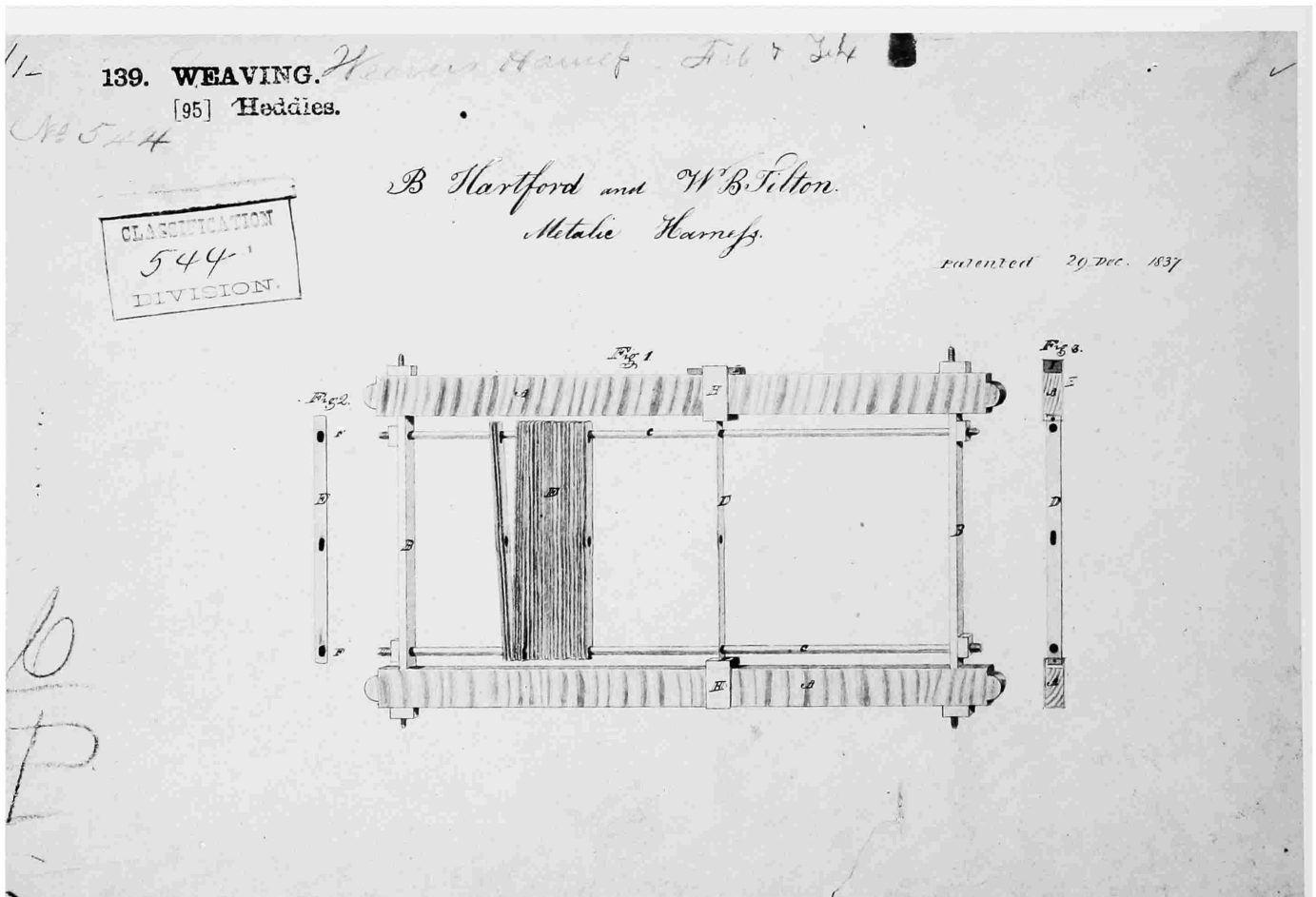


FIGURE 24.—Patent drawing 544. (U.S. National Archives)

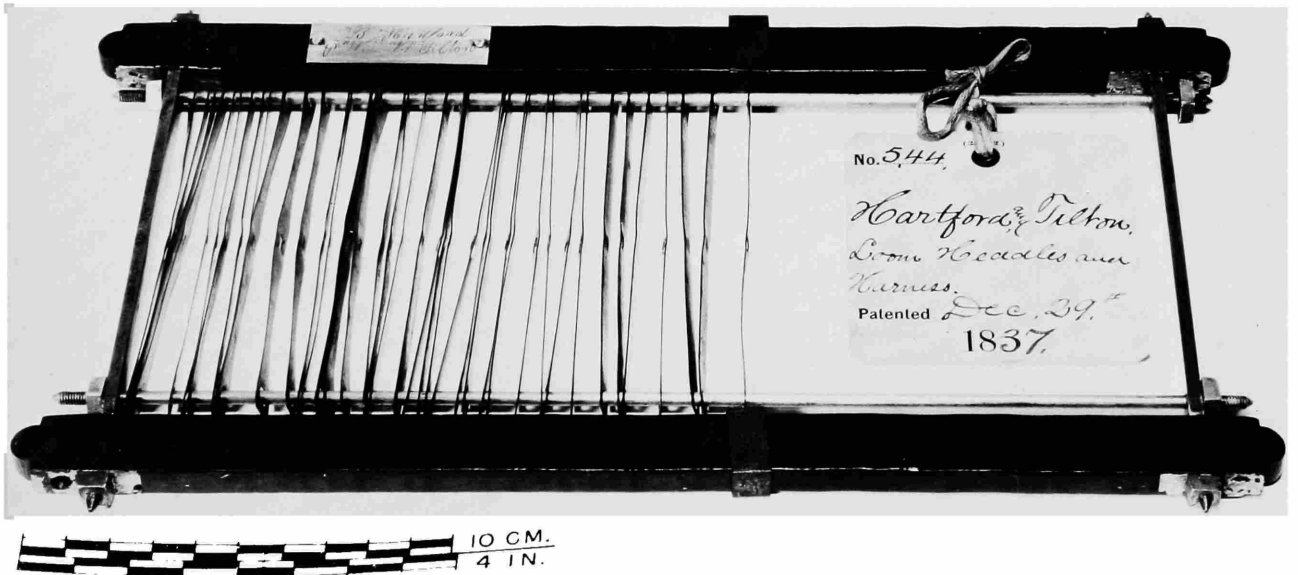


FIGURE 25.—Patent model 544. (S.I. neg. 82-2564)

PATENT 546: Loom for Weaving Knotted Counterpanes

Issued January 6, 1838

Erastus B. Bigelow

West Boylston, Worcester Co., Massachusetts



Erastus B. Bigelow¹ primarily claimed the mechanism that raised the knots which formed the figures or patterns on the counterpane. His patent specification was lengthy, consisting of five pages of drawings and nine pages of written specifications.

The editor of the *Journal of the Franklin Institute* remarked in an article that

the goods produced in this loom are of a quality very superior to such as are produced in the hand loom; at all events we have not met with any thing of the kind in the shops that will compare with them for texture, and for beauty and

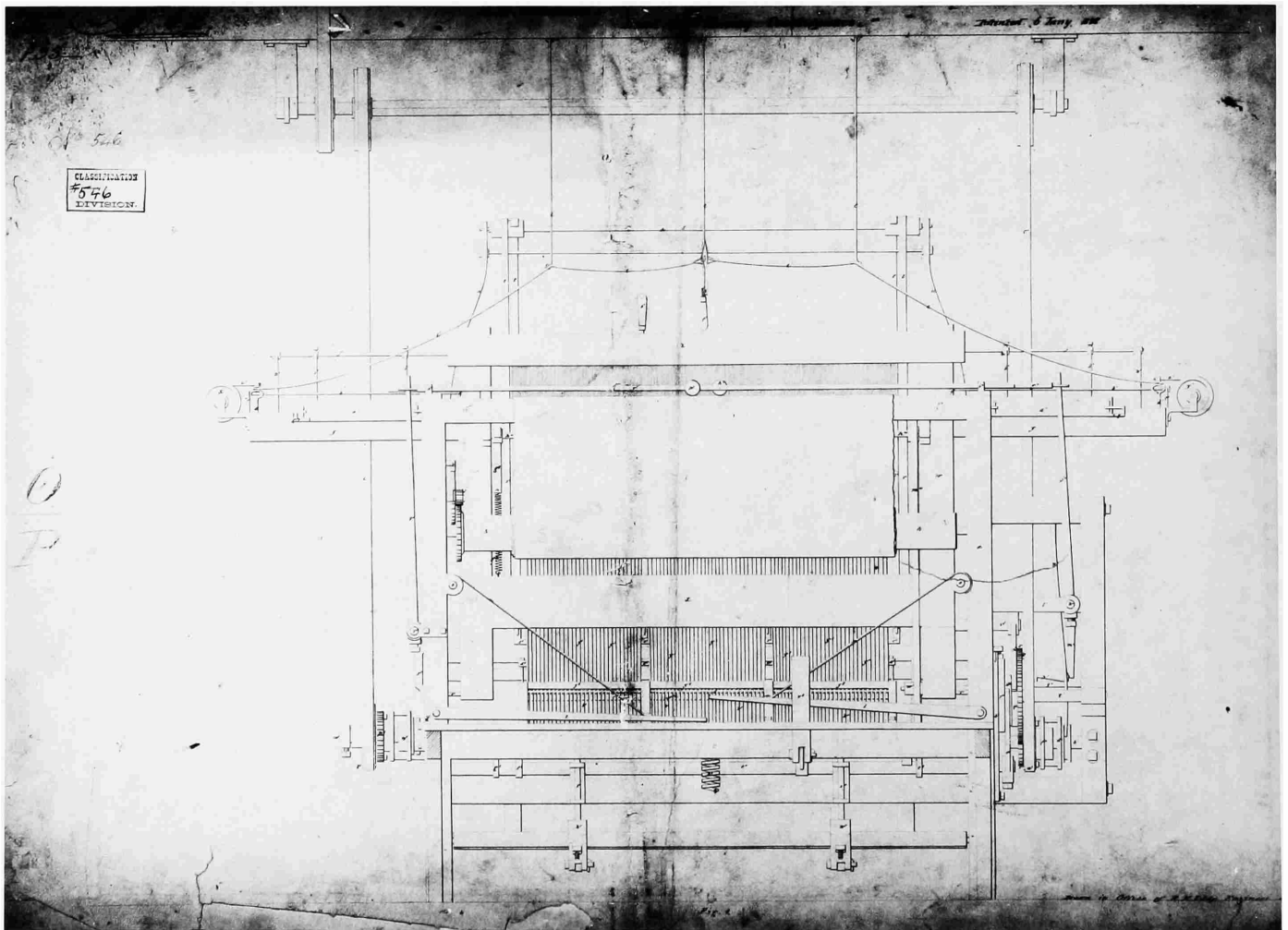


FIGURE 26.—Patent drawing 546. (U.S. National Archives)

regularity of pattern. We speak advisedly on this point, having two of them in use, that have been examined by persons who are good judges in such matters. Of their durability there cannot be any doubt, and the friends of domestic industry will be glad to learn that the manufacture is so much facilitated by the invention of Mr. Bigelow as to cause them to be afforded at a price considerably below that at which those of an inferior quality can be imported, and yet to give a satisfactory remuneration to the manufacturer

We anticipate that at a very early day, American counterpanes will become as general as berths on board steamboats, and as beds at hotels. The articles are for sale in all our large cities, and as soon as there is a sufficient supply, will make their way into every part of the Union.²

Bigelow was a prolific inventor, including the patenting of at least 33 looms. In 1842 he revolutionized carpet manufacture by a series of inventions that made the carpet loom automatic. The automatic features enabled the manufacturers to replace male weavers with less costly female weavers or boys. His inventions for the power weaving of Ingrain, Brussels,

Jacquard, and Wilton carpets were quite successful. Before the middle of the nineteenth century, the importance of these inventions was recognized, not only in the United States but also in Europe.³

The 1950 issue of *The Bigelow Magazine*, published by the Bigelow-Sanford Carpet Company for their 125th anniversary, included an article on Bigelow in which he was headlined as the "Father of the modern carpet industry."⁴

¹The detail of Christian Schussele's painting, *Men of Progress: American Inventors*, shows Bigelow (standing) with one of his loom drawings attached to the wall behind him. (National Portrait Gallery, S.I.)

²*Journal of the Franklin Institute*, new series, 26(1840):173-174.

³Hayes, *American Textile Machinery*, pages 51-52.

⁴Jay Bradley, editor, "Erastus Bigelow," *The Bigelow Magazine*, 2(5)(September-October 1950):6-9, 38-39.



FIGURE 27.—Patent model 546. (S.I. neg. 81-4414)

PATENT 595: Power Loom

Issued February 6, 1838

Elijah Fairman

Stafford, Tolland Co., Connecticut

Fairman's improvements, consisting of an additional cam and set of treadles, were additions to power looms in common use. His improvements allowed the harnesses to operate more smoothly and the warp to open, through which the shuttle

passed more easily. The end result was that the loom was better suited to weaving either light or heavy fabrics.

Six pages and three illustrations in Gilroy's book, *The Art of Weaving*, are spent in describing Fairman's patent. Gilroy

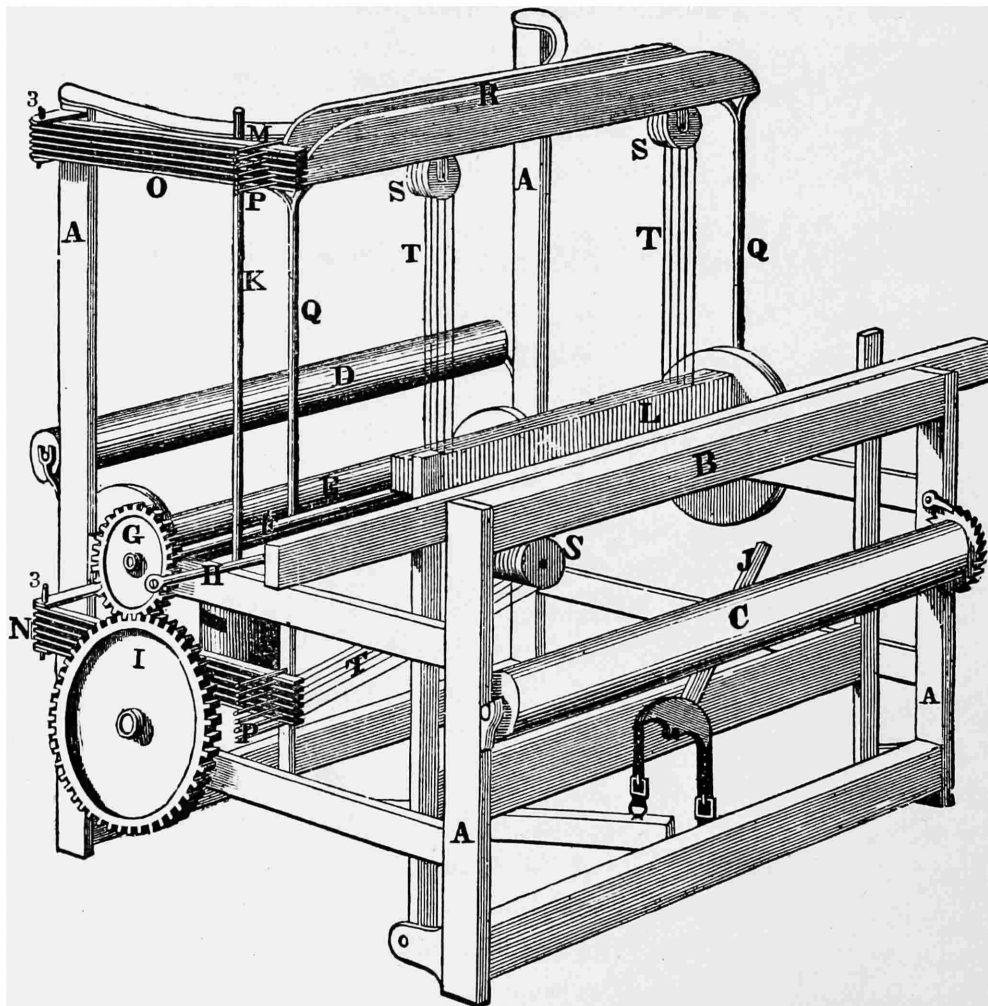


FIGURE 28.—This illustration of Fairman's loom accompanied an article in *Scientific American*, 1845, which described his improvement to the satinet loom. (S.I. neg. 82-2780)

commented that Fairman's loom would probably work fine for simple weaves, but for fancy patterned work, one requiring 10-100 heddle frame, it would be totally impractical.¹

Scientific American published an excerpt from Gilroy's remarks on Fairman's loom and included one engraving. At the end of the article there was advertised for sale an "invaluable work entitled *The Art of Weaving*, by Gilroy, which included a series of descriptions, with illustrations, of many different inventions."²

¹Gilroy, *The Art of Weaving*, pages 374-379.

²*Scientific American*, 1(1846):111.

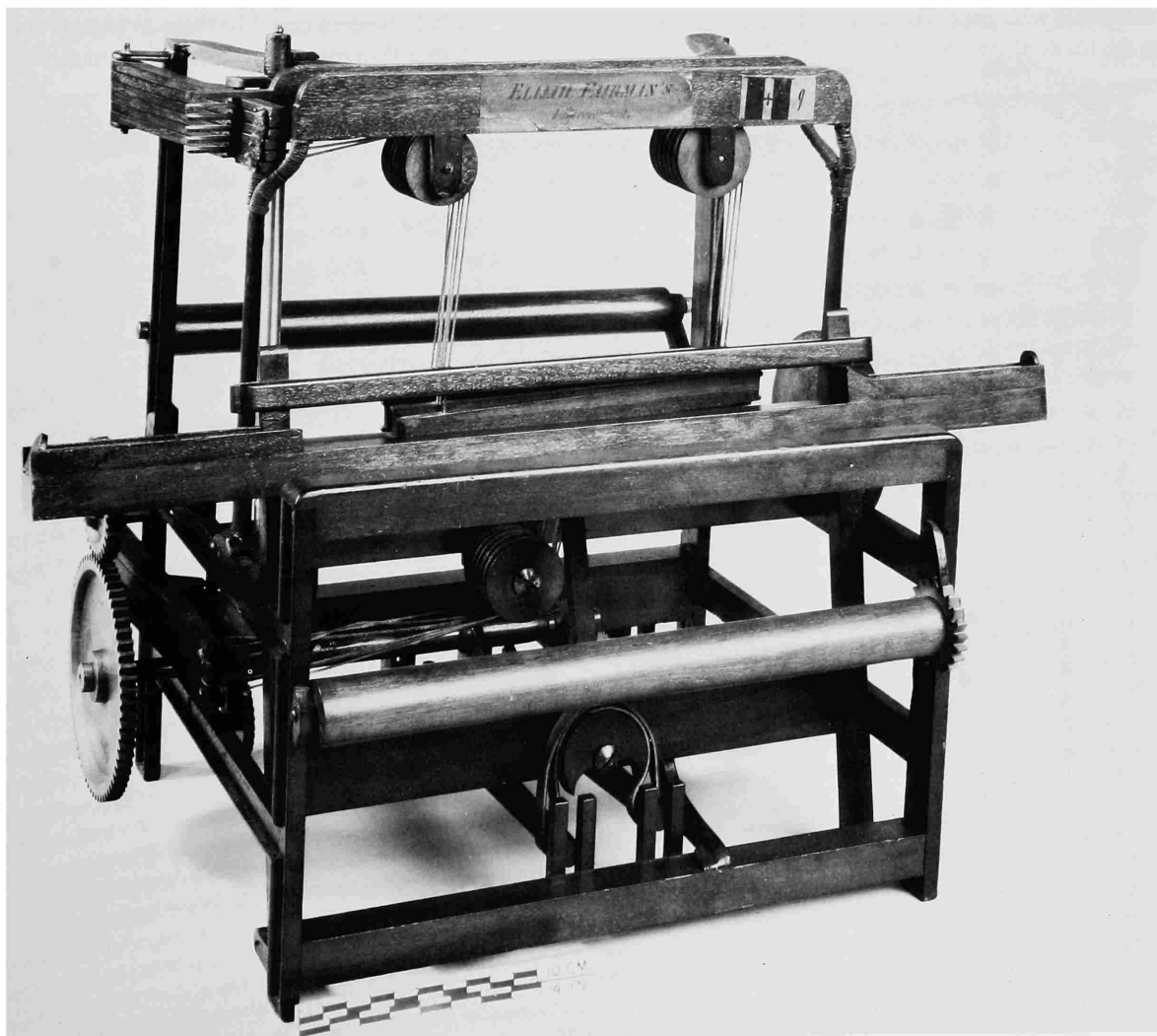


FIGURE 29.—Patent model 595. (S.I. neg. 80-20144)

PATENT 596: Cordage Machine

Issued February 7, 1838

Moses Day

Roxbury, Norfolk Co., Massachusetts

This patent was an improvement on Day's earlier patent (9692x) of June 2, 1836, which was destroyed in the 1836 fire and reconstructed by the Patent Office for the Columbian Exposition of 1893. The difference between the two patents is the addition of a gauge-plate to the end of the machine by which it became a strandmaker. In Figure 32, the perforated gauge-plate on the end of the twisting machine is in the shape of a circle with ears. The toothed bench with flax laying on it in the restored drawing of patent 9692x was replaced in patent

drawing 596 with a bobbin frame, which fed the cordage machine with the desired number of strands to be twisted into cord. Day stated that his method of making cordage had two advantages over those in common use. First, the twist given to the strand was uniform throughout its length. Second, as the cord was made, it was wound on a bobbin, thereby eliminating the need for long rope walks and large buildings. Thus, the whole process could be done in a room that was only slightly larger than the cordage machine and the bobbin frame.

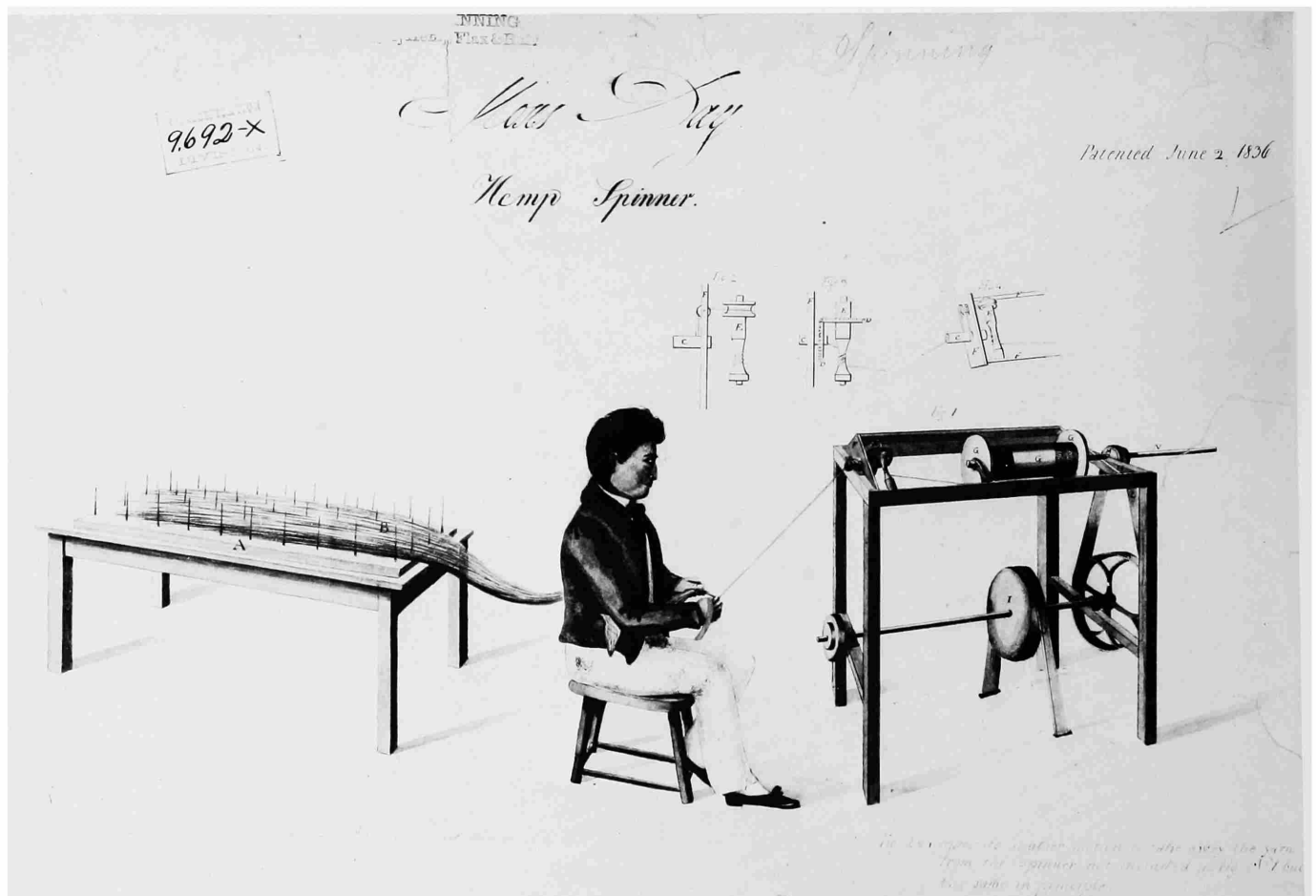


FIGURE 30.—Restored patent drawing 9692x. (U.S. National Archives)

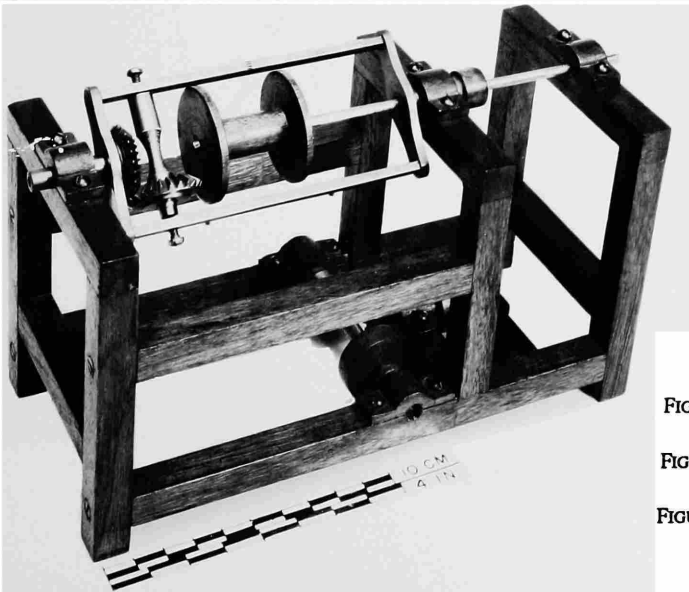
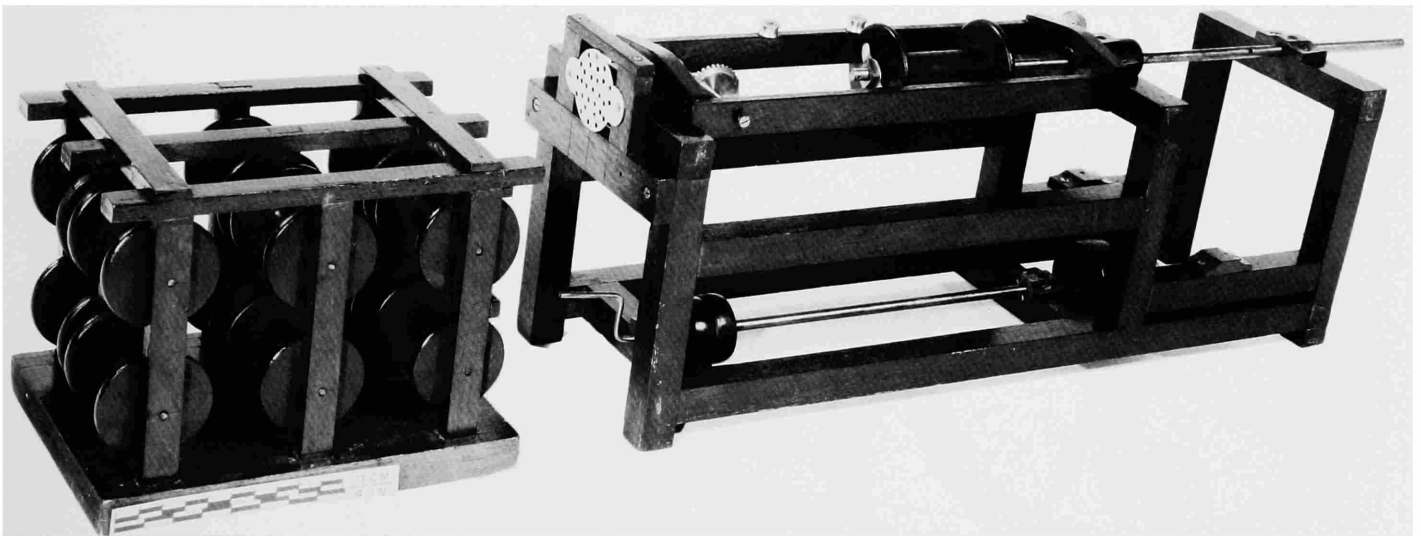
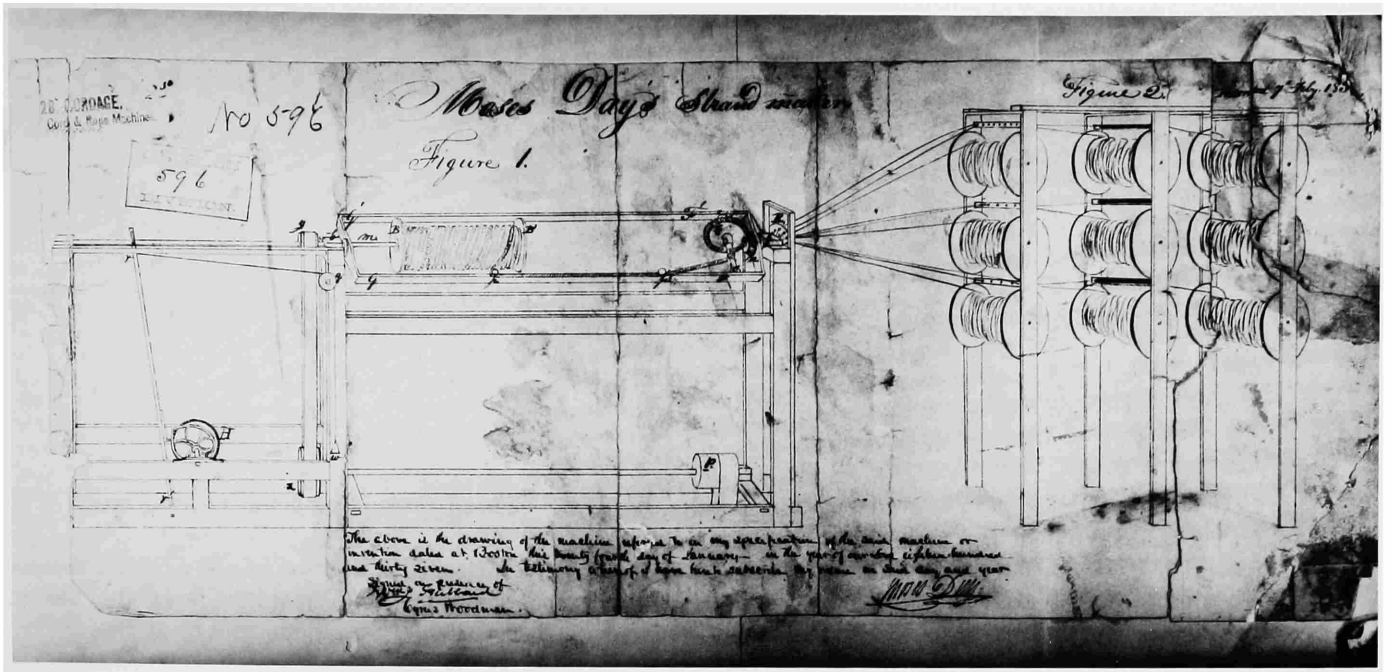


FIGURE 31.—Patent drawing 596. (U.S. National Archives)

FIGURE 32.—Patent model 596. (S.I. neg. 81-5252)

FIGURE 33.—Restored patent model 9692x. (S.I. neg. 82-3601)

PATENT 710: Domestic Spinning Wheel

Issued April 25, 1838

Hiram F. Wheeler

Springville, Susquehanna Co., Pennsylvania

Hiram Wheeler's domestic wheel was intended to spin wool and tow. He titled his invention "inclined spinner," referring to the fact that the operator would sit at the machine as opposed to standing and walking when using the typical wool wheel. When the treadle was forced down with the foot, a cord ran out the carriage and the spinning wheel head. A weight brought them back toward the spinner. This movement of the carriage was equivalent to the spinner walking forward to the spindle tip for the draw out and then back to the wheel. Wheeler

specifically claimed as his invention this sliding action of the wheel head.

The editor of the 1839 *Journal of the Franklin Institute* remarked of the wheel that "there is little probability that our readers will ever see [the wheel], unless it be in the form of a model, at the Patent Office."¹ This prediction seems to have been valid, because there are no other known existing spinning wheels bearing his patent.

¹*Journal of the Franklin Institute*, new series, 23(1839):184.

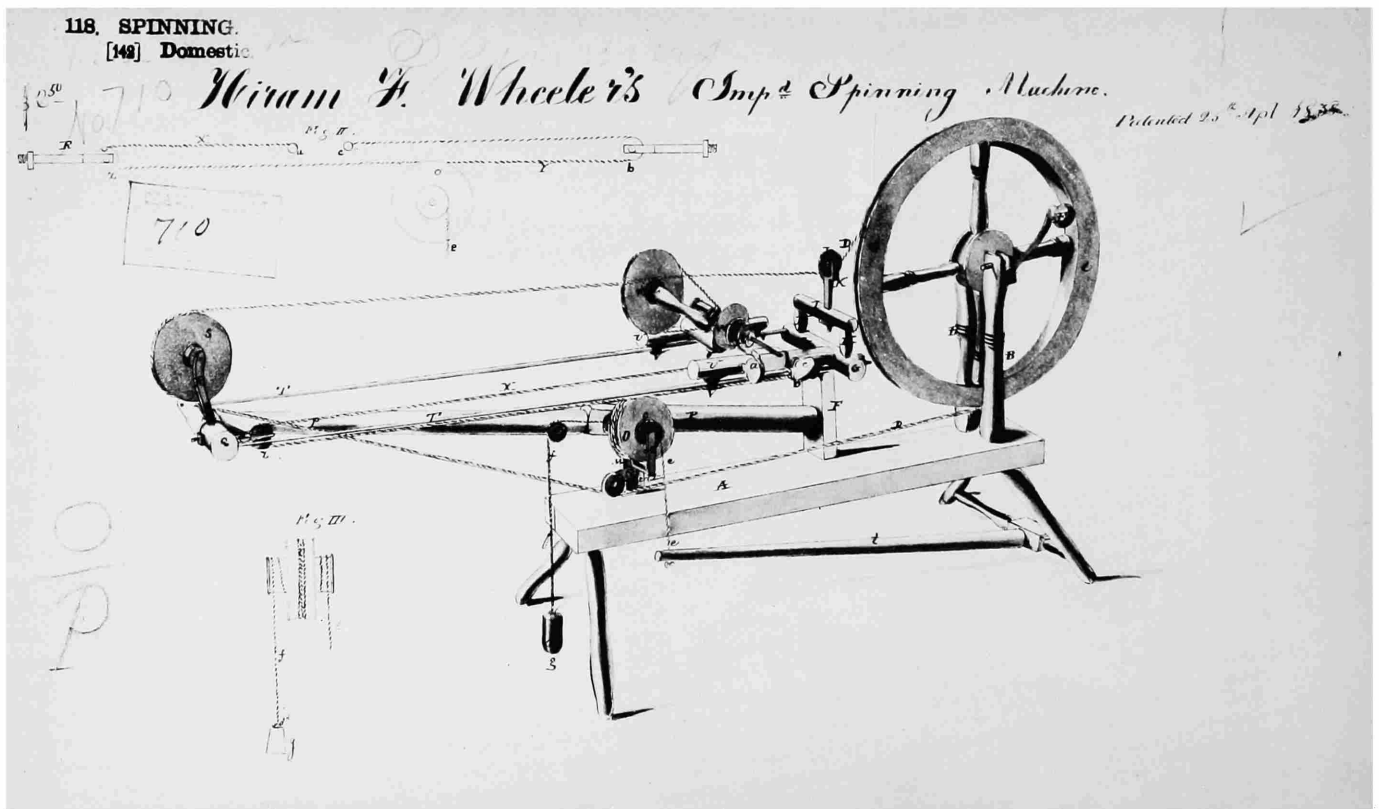


FIGURE 34.—Patent drawing 710. (U.S. National Archives)

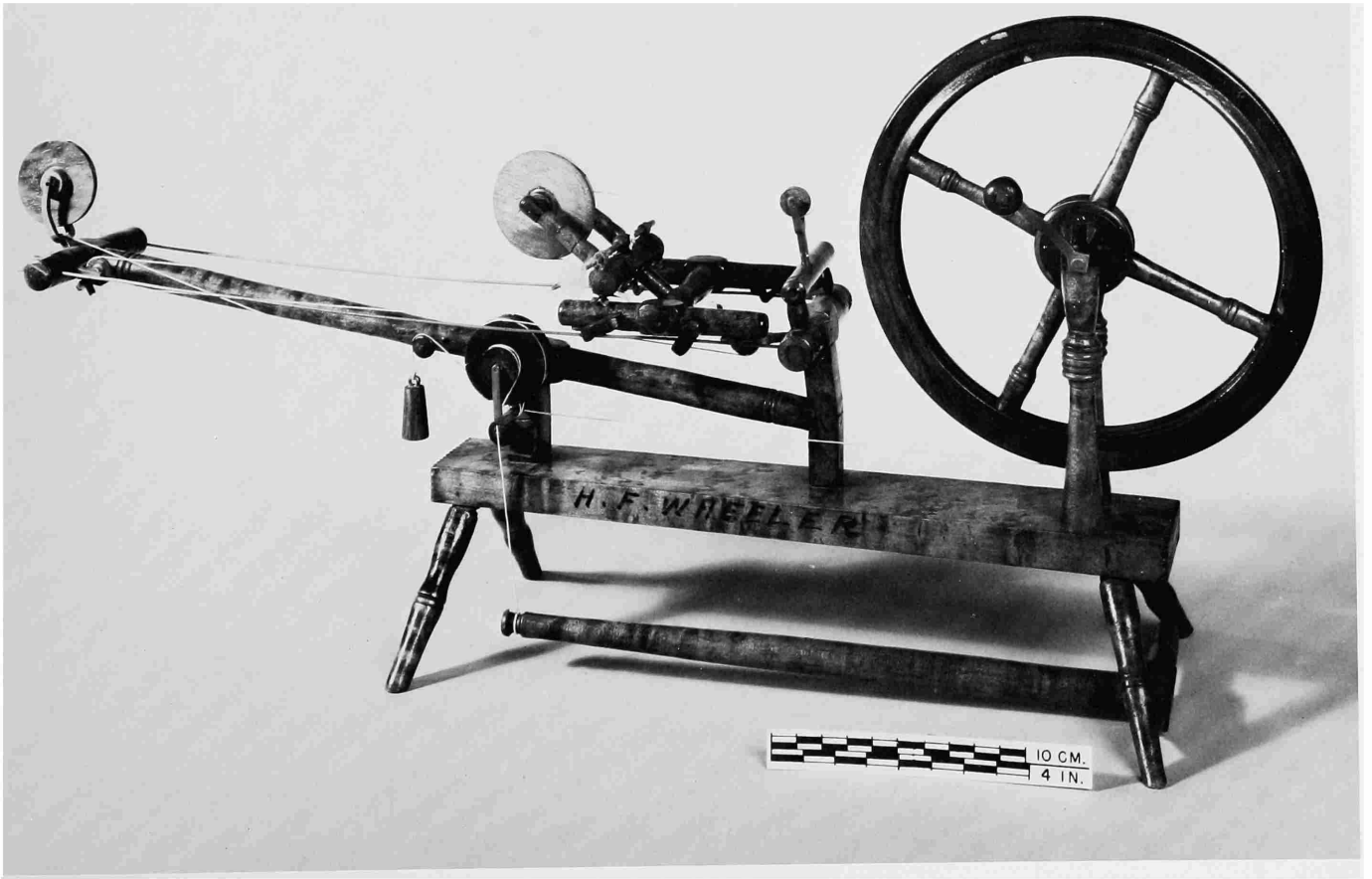


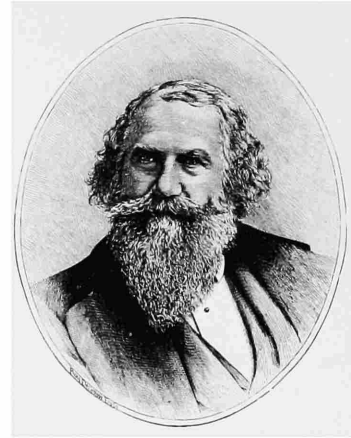
FIGURE 35.—Patent model 710. (S.I. neg. 80-20145)

PATENT 724: Speeder for Roving Cotton

Issued May 4, 1838

William Mason

Taunton, Bristol Co., Massachusetts



In 1837, William Mason,¹ who was employed by Crocker and Richmond, developed a speeder to replace the Taunton speeder that had been invented by George Danforth in 1824.

Mason's patent consisted of two parts: the mode of withdrawing the spindle for the doffing and the centrifugal levers. The editor of the *Journal of the Franklin Institute* stated of the first part that the mode was "ingenious, and manifestly

good." Of the second part he explained that "by their weight, at their outer ends, these levers expand by the centrifugal force, with a power proportioned to their velocity, causing their inner ends to press upon the spools, and laying the yard hard and compact upon them; and consequently, admitting of a very high degree of speed."²

Although Mason was successful in improving the speeder

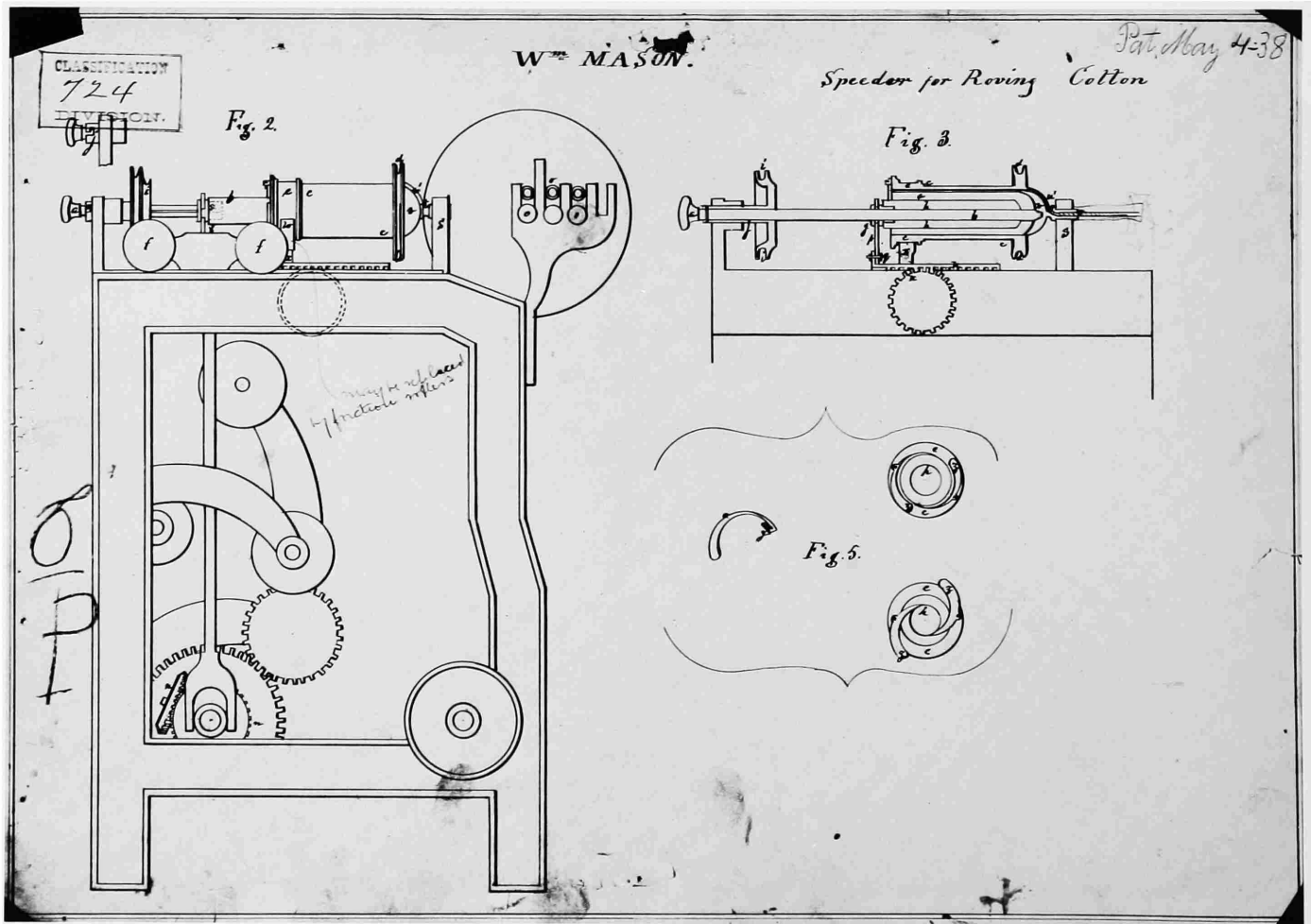


FIGURE 36.—Patent drawing 724; the centrifugal levers are depicted "Fig. 5." (U.S National Archives)

(for which he was awarded patent 724) it was difficult to thread and to remove the bobbins. In addition, the speeder created coarse rovings at a time in the late 1830s when finer materials were becoming popular. The speeder later proved inferior to an improved English fly frame and disappeared from use in the 1840s and 1850s.³

Earlier in his career, Mason had devised a loom for weaving diaper cloth and another loom for weaving damask tablecloths. In 1833, he succeeded in perfecting John Thorp's ring frame (patent 5280x; see Figure 63) to the point where it was later used extensively in the textile industry. He also invented a self-acting mule for spinning cotton (patent 1801, issued October 8, 1840), which for that period was a successful alternative to the contemporary ring spinning machine.⁴

In 1842, Mason, with the financial backing of James Kellogg Mills, a Boston merchant, established a machine shop called William Mason and Company. Business prospered and in 1845 new buildings were constructed. At that time, Mason's Taunton

shop was considered the largest machine shop in the United States. The shop was particularly successful in manufacturing cotton machinery, as well as machine tools, cupola furnaces, blowers, rifles, Campbell printing presses, gears, and shafts. Mason found new fame in 1852 when he began building locomotives, the first of which was finished in 1853. His locomotives found wide acceptance for their beauty of design and technical excellence.⁵ Mason was a pioneer inventor and manufacturer whose ideas, manufacturing methods, and products had a profound influence on American technology.

¹The engraving of William Mason (above) is from the 1883 issue of *American Journal of Fabrics* (S.I. neg. 81-873).

²Jones, *Journal of the Franklin Institute*, new series, 23(1839):232.

³Lozier, "Taunton and Mason," pages 169-171.

⁴*Dictionary of American Biography*, 12(1933):377-378. Navin, *The Whittin Machine Works Since 1831*, pages 34-35.

⁵*Dictionary*, loc. cit. Bishop, *American Manufacturers*, 3(1868):319-323. Lozier, "Taunton and Mason," pages 282-287.

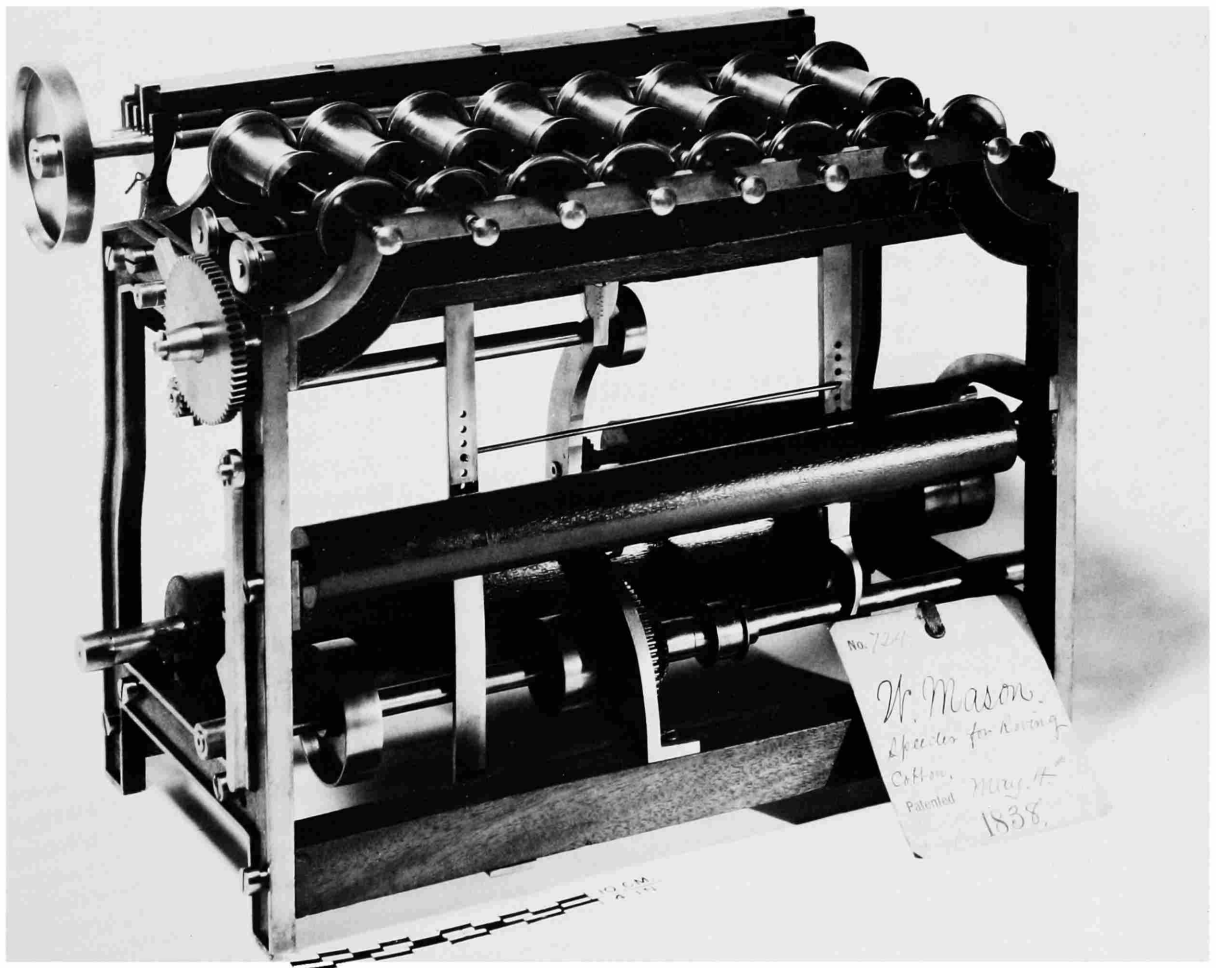


FIGURE 37.—Patent model 724. (S.I. neg. 82-2562)

PATENT 758: Take-up and Let-off for Power Looms

Issued May 30, 1838

Stephen Kimball

Putney, Windham Co., Vermont

Kimball's patent refers to the application of friction to the yarn beam of a power loom. This was accomplished by using a belt, made of steel or iron, which formed nearly a circle around the warp beam. Friction was created by adjusting a

screw that caused the circular belt to contract or expand and, in turn, to increase or decrease the drag on the beam. An elliptical spring eased the movement of the beam within the belt and helped maintain the evenness of the cloth.



FIGURE 38.—Patent model 758. (S.I. neg. 80-15212)

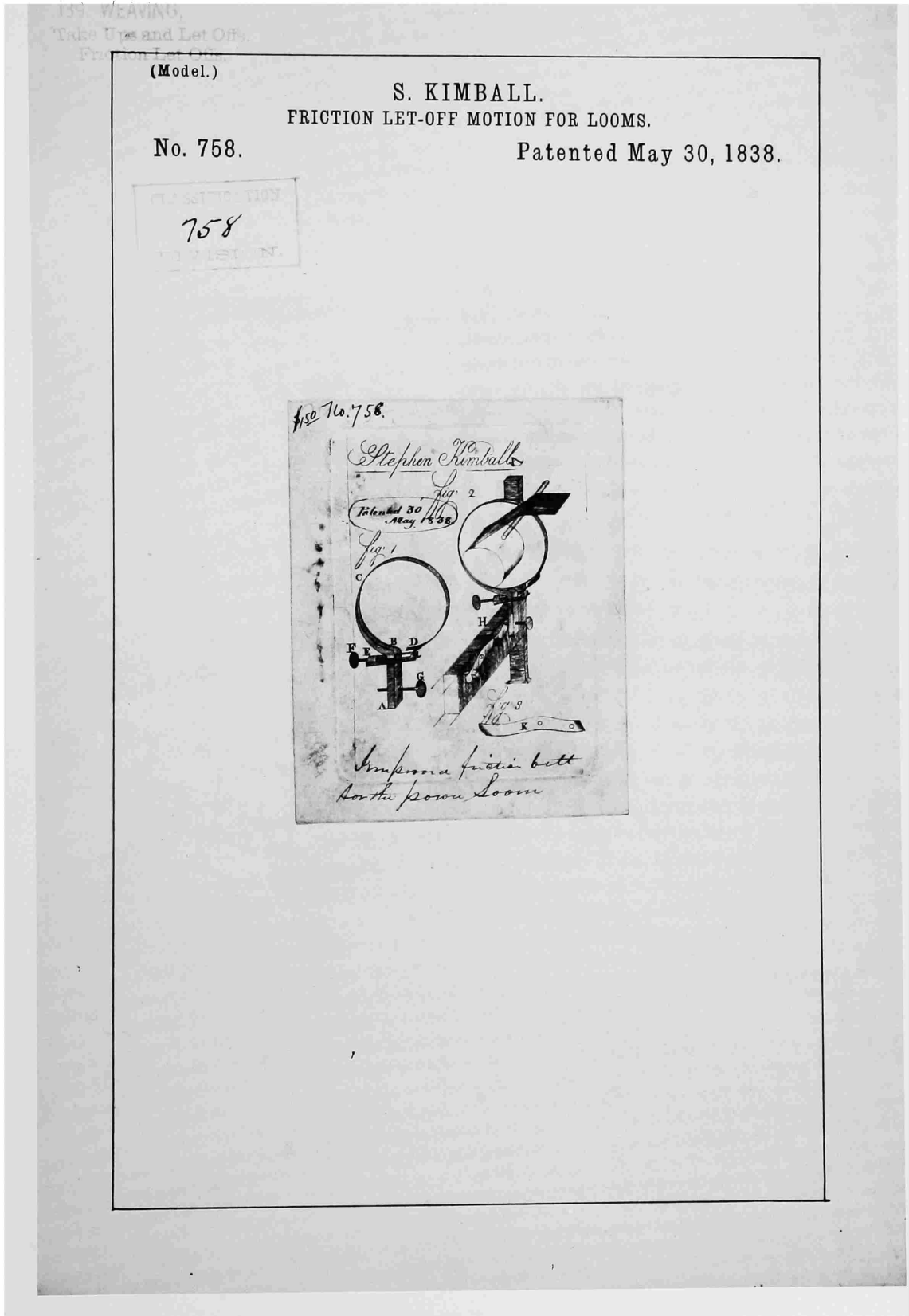


FIGURE 39.—Patent drawing 758. (U.S. National Archives)

PATENT 781: Spindle and Flyer

Issued June 12, 1838

Richard E. Yerkes
Philadelphia, Pennsylvania

According to his patent specification, Yerkes patented “the revolving arrangement and combination of the sliding shaft, with the broach, or with the spool, for the purpose of removing and renewing the latter” The action of the sliding shaft enabled the operator to remove and change the spool when the spring was pressed down. In addition, he patented the ring in combination with the flyers that distributed the yarn on the spool. Yerkes intended his improvements to be used on machines for spinning cotton and other fibers.

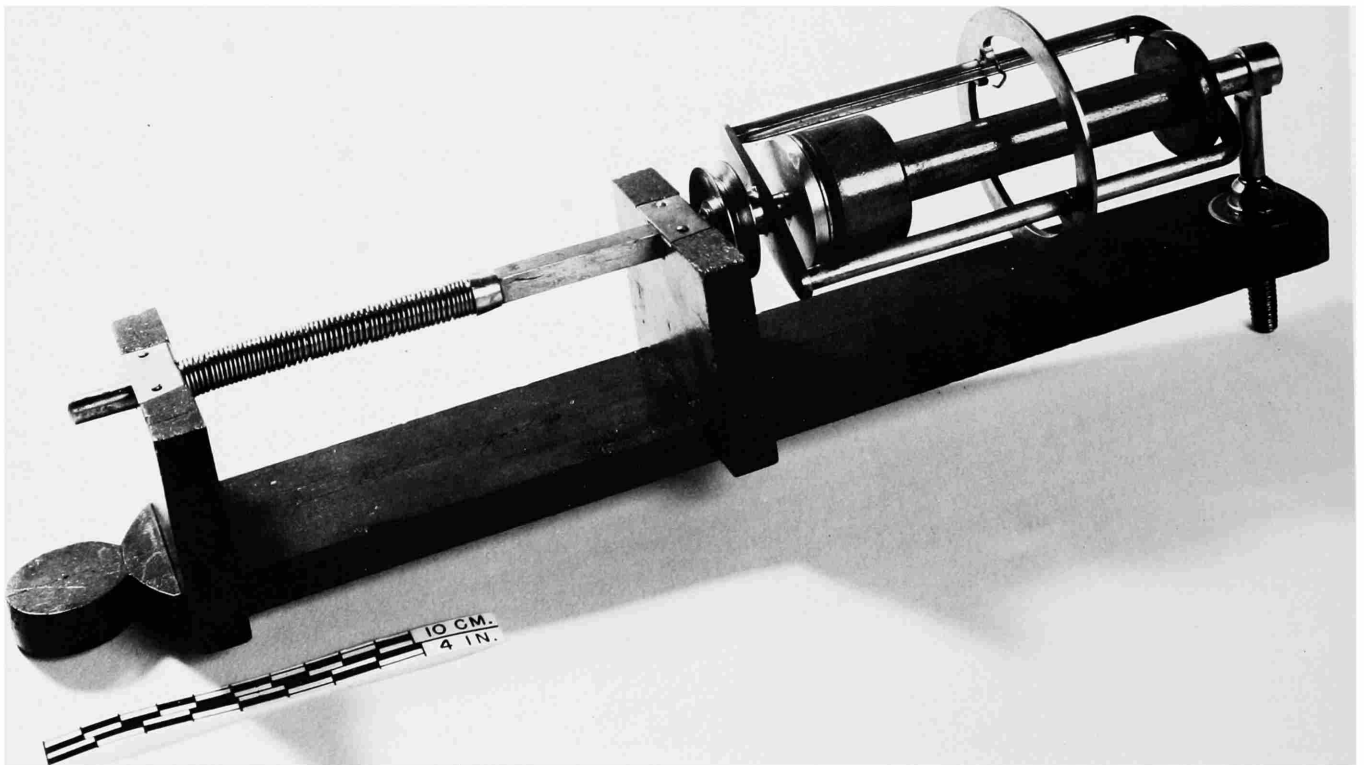


FIGURE 40.—Patent model 781. (S.I. neg. 81-9859)

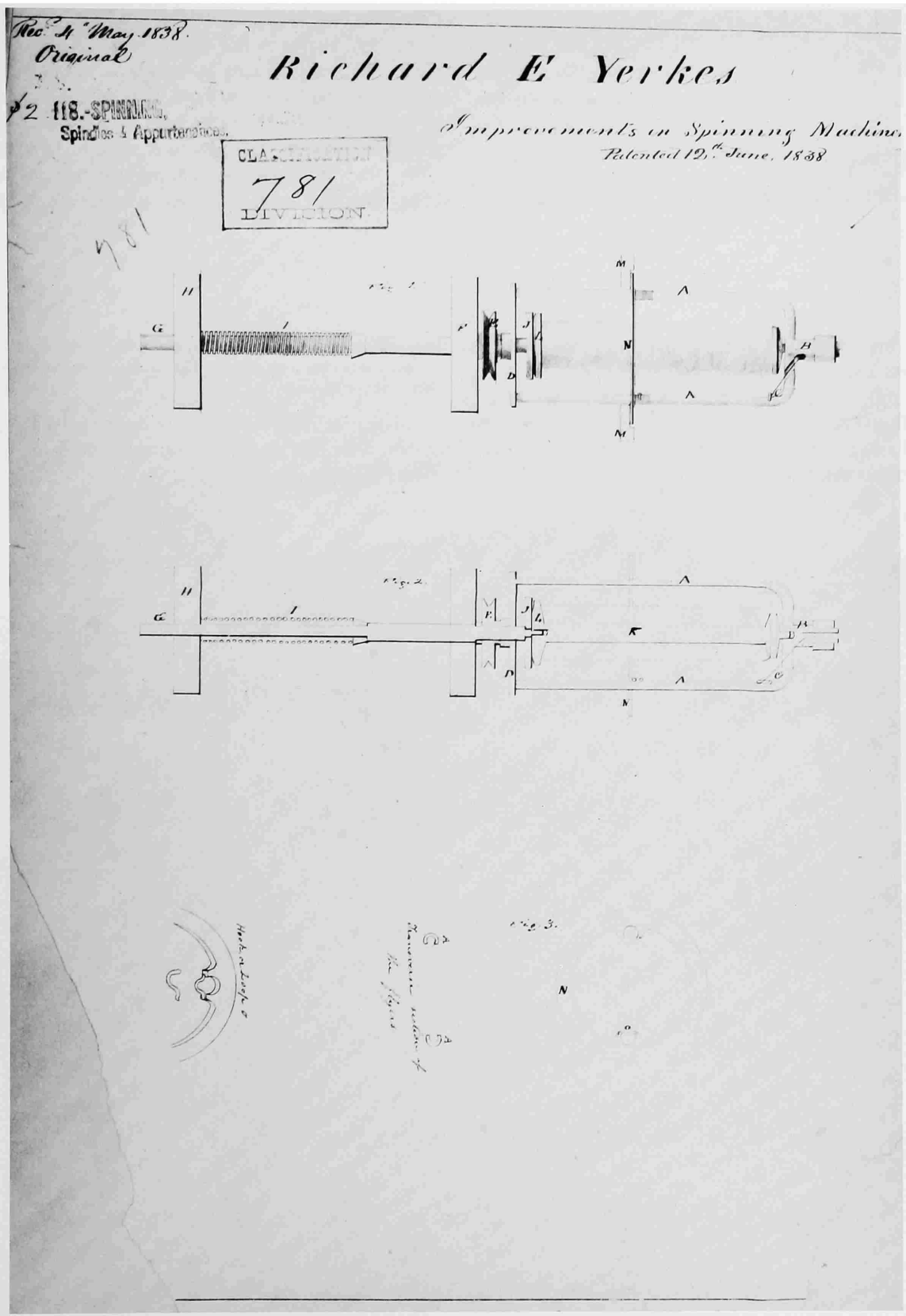


FIGURE 41.—Patent drawing 781. (U.S. National Archives)

PATENT 823: Calico Printing Machine

Issued July 9, 1838

Alden Sibley

Pawtucket, Bristol Co., Massachusetts

Sibley's improvement concerned the arrangement of the color box, which held the coloring matter used in printing; the furnishing roll, which supplied the coloring matter to the printing roll; and the doctor, which acted as a scraper to remove any superfluous color from the cylinder. Sibley stated that the advantage of his machine was

being able to work as heavy an Engraving, last as first, or second, and by which means you can place the Light, delicate colors, first and Black or Chocolate last or as you please.¹

His patent model shows only one engraved copper roller, although the machine was designed to do 3- or 4-color work with multiple rollers.

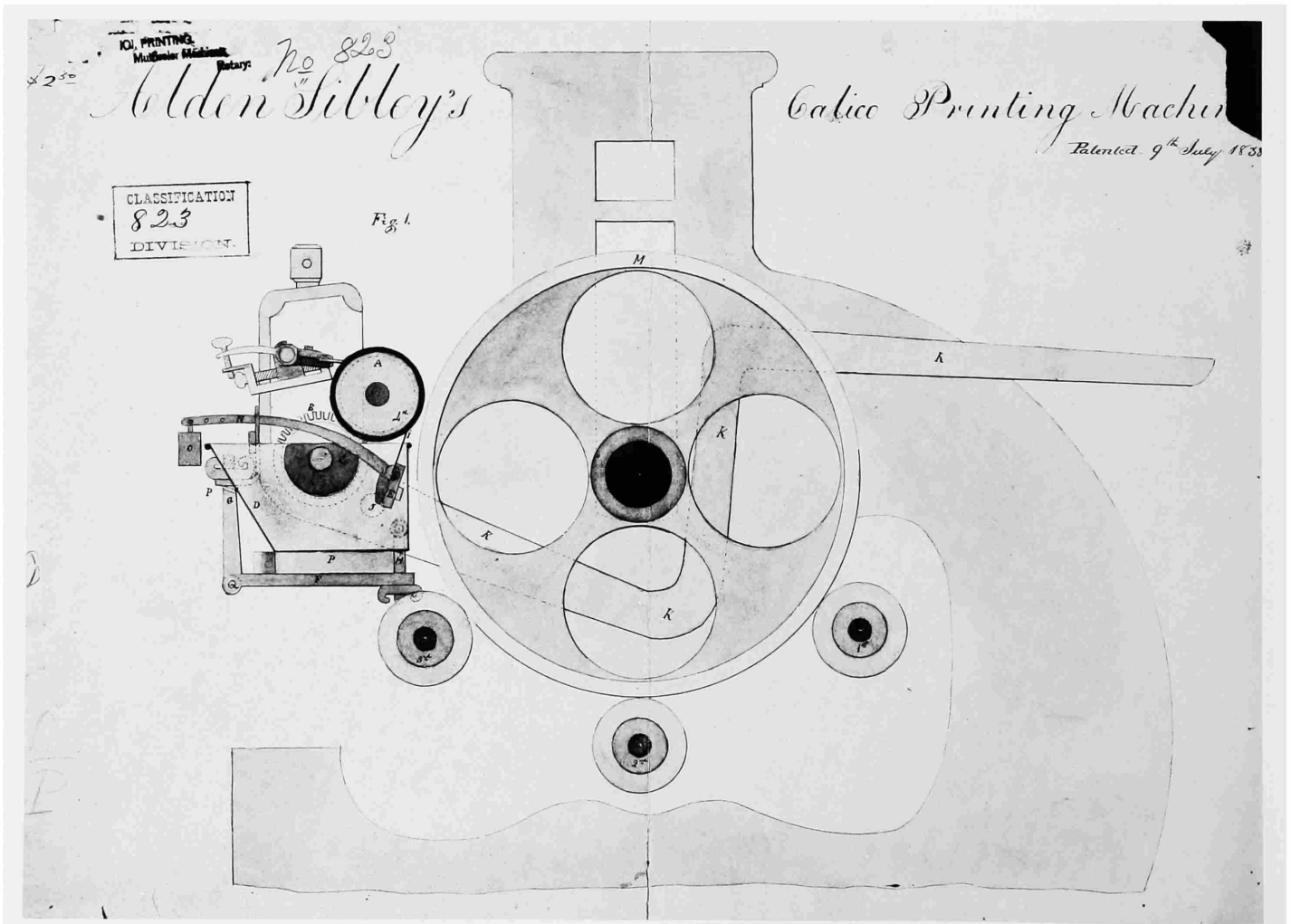


FIGURE 42.—Patent drawing 823. (U.S. National Archives)

Sibley recommended using flour instead of gum to thicken the coloring matter. He calculated that to print 175 pieces it was necessary to use 42 pounds of gum sengal, at 22 cents a pound, which added up to \$9.24; whereas, 42 pounds of flour cost only 5 cents a pound, for a sum of \$2.10. That totaled up to a savings of \$7.14 if the flour was used.² Whether or not the use of flour was ever adopted is not known.

By 1836, textile mills in the United States had printed 120

million yards of calicoes. Calico printing was popular among manufacturers largely due to the fact that the printing only added a step to the finishing process and did not affect or complicate the weaving process.³

¹National Archives Record Group 241: Patent Application Files, patent 823.

²*Ibid.*

³Bishop, *American Manufacturers*, 2(1868):404.

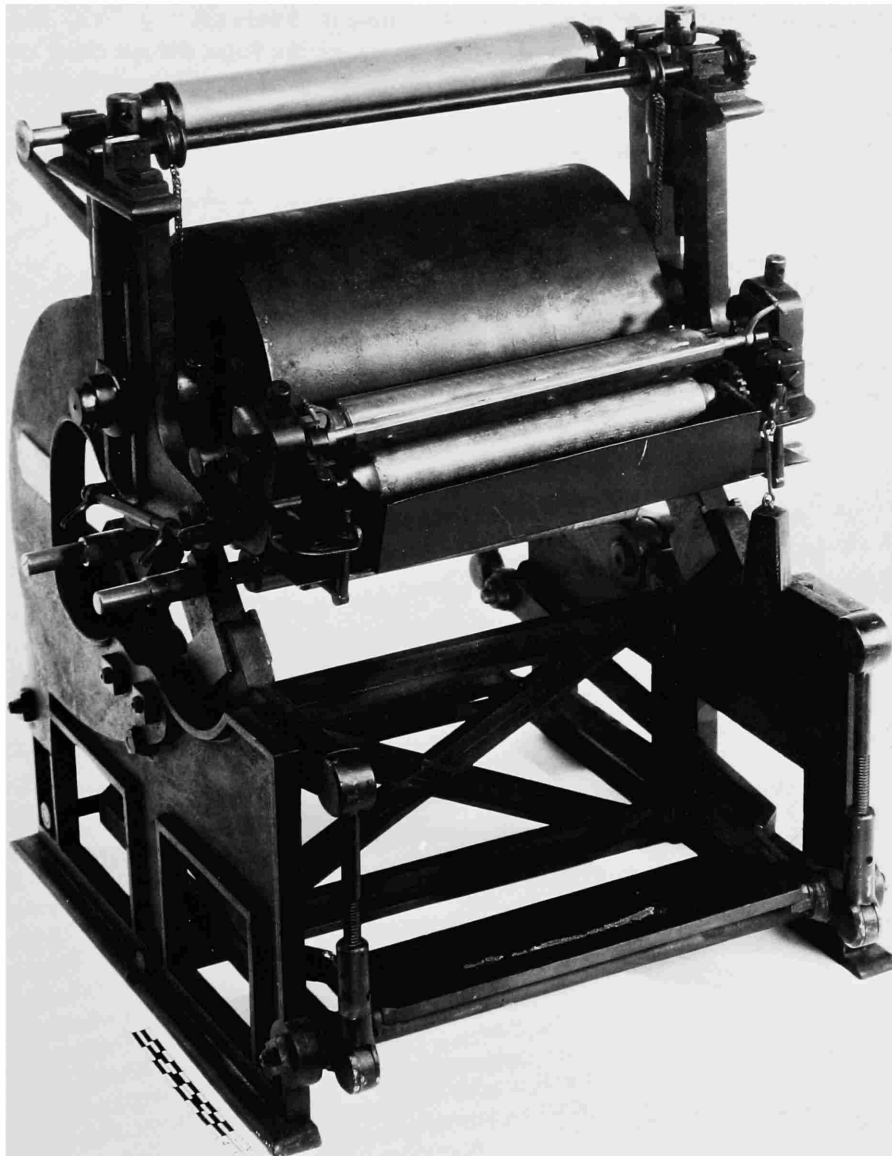


FIGURE 43.—Patent model 823. (S.I. neg. 81-13337)

PATENT 863: Hand Card

Issued August 1, 1838

George Faber

Canton, Stark Co., Ohio

Faber's patent related to the construction of the common hand card used for carding cotton or wool prior to the spinning process. He specifically patented using wood veneer, instead of leather, for the foundation that contained the card's wire teeth. The wood was cut from $\frac{1}{8}$ to $\frac{3}{16}$ of an inch in thickness, 4 inches in width, and 4 to 8 inches in length. The wood was then steeped in water to soften it so that when placed in a card

machine, it could be pricked and the teeth inserted. The veneer was nailed to another piece of wood and a handle inserted to form the hand card.

Although Faber did not claim credit for inventing the card machine, in his patent specification he did mention that he had made improvements on it.

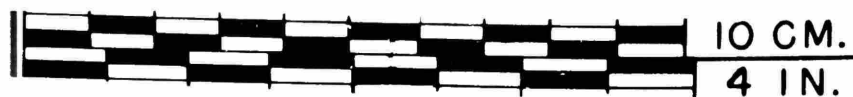


FIGURE 44.—Patent model 863. (S.I. neg. 80-12386)

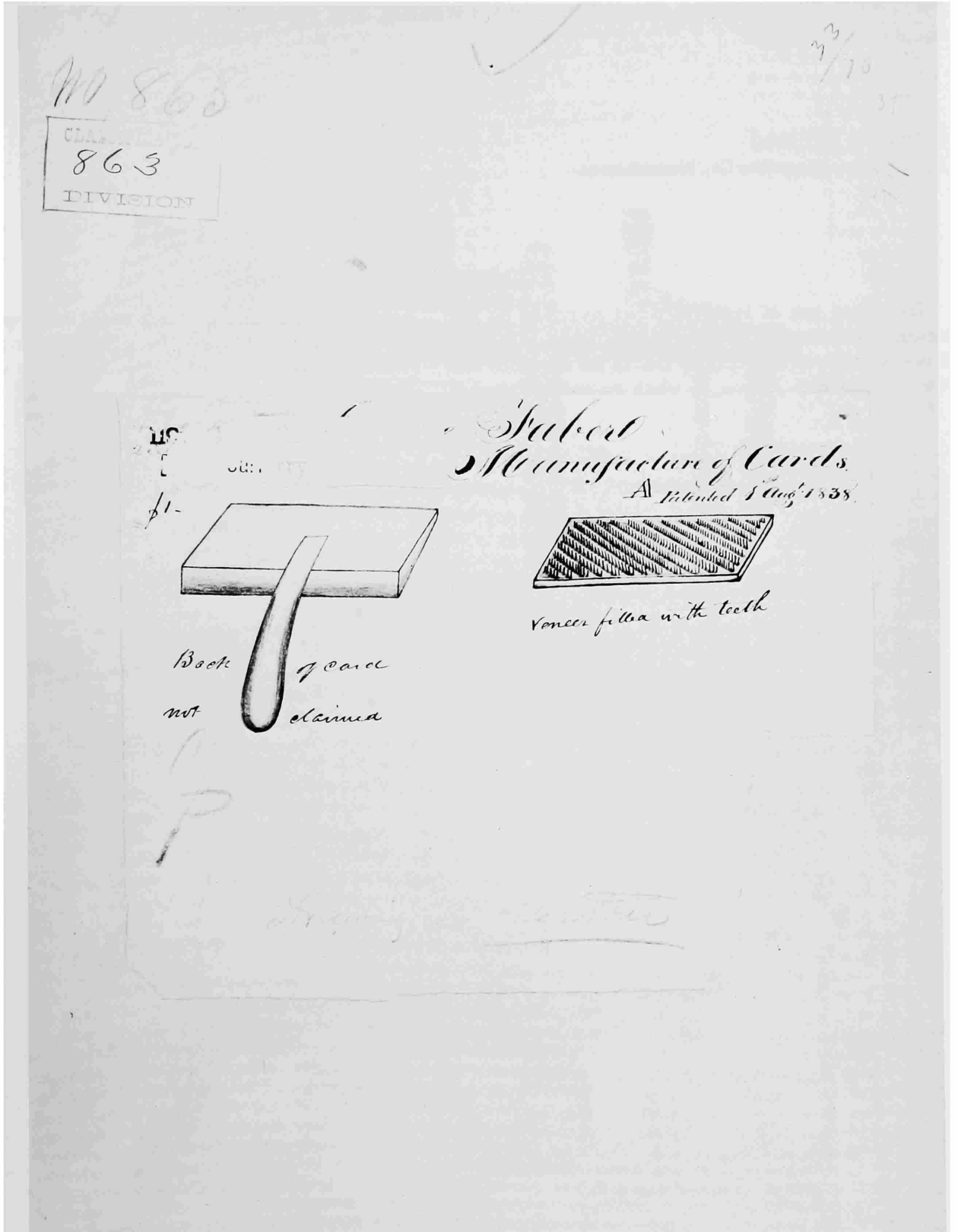


FIGURE 45.—Patent drawing 863. (U.S. National Archives)

PATENT 977: Spinning, Doubling, and Twisting Silk Machine

Issued October 10, 1838

Harrison Holland

Northampton, Hampshire Co., Massachusetts

The central part of Holland's patent concerned the stop motion mechanism on a silk threadmaking machine. If a thread broke, a small rod, connected to each of the threads by bent wires, would drop. A lever, to which the rod was attached,

would come in contact with the drum and then stop the machine by throwing it out of gear. Also included in the patent was a method to change the twist of the silk thread by using a short cylinder.

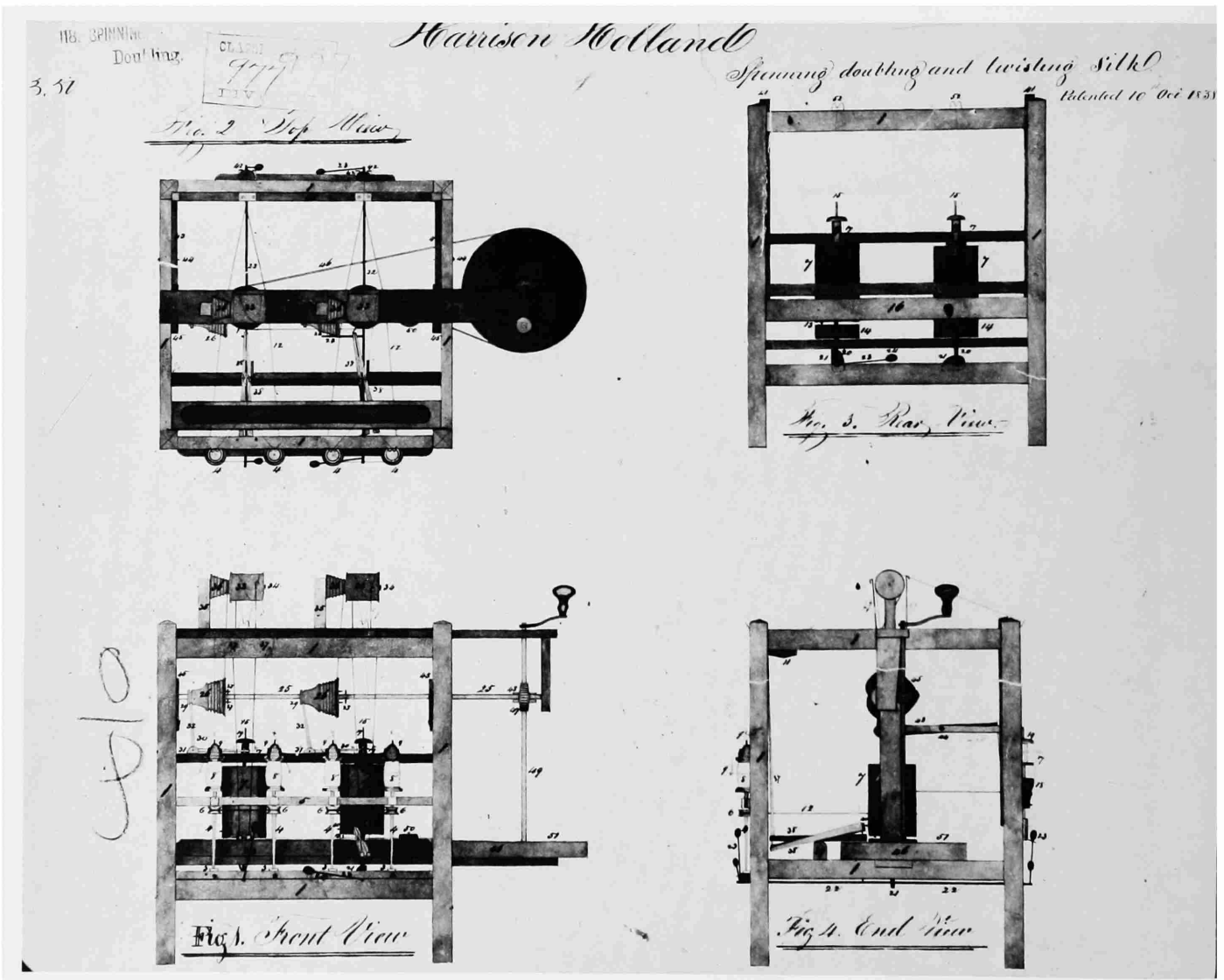


FIGURE 46.—Patent drawing 977. (U.S. National Archives)

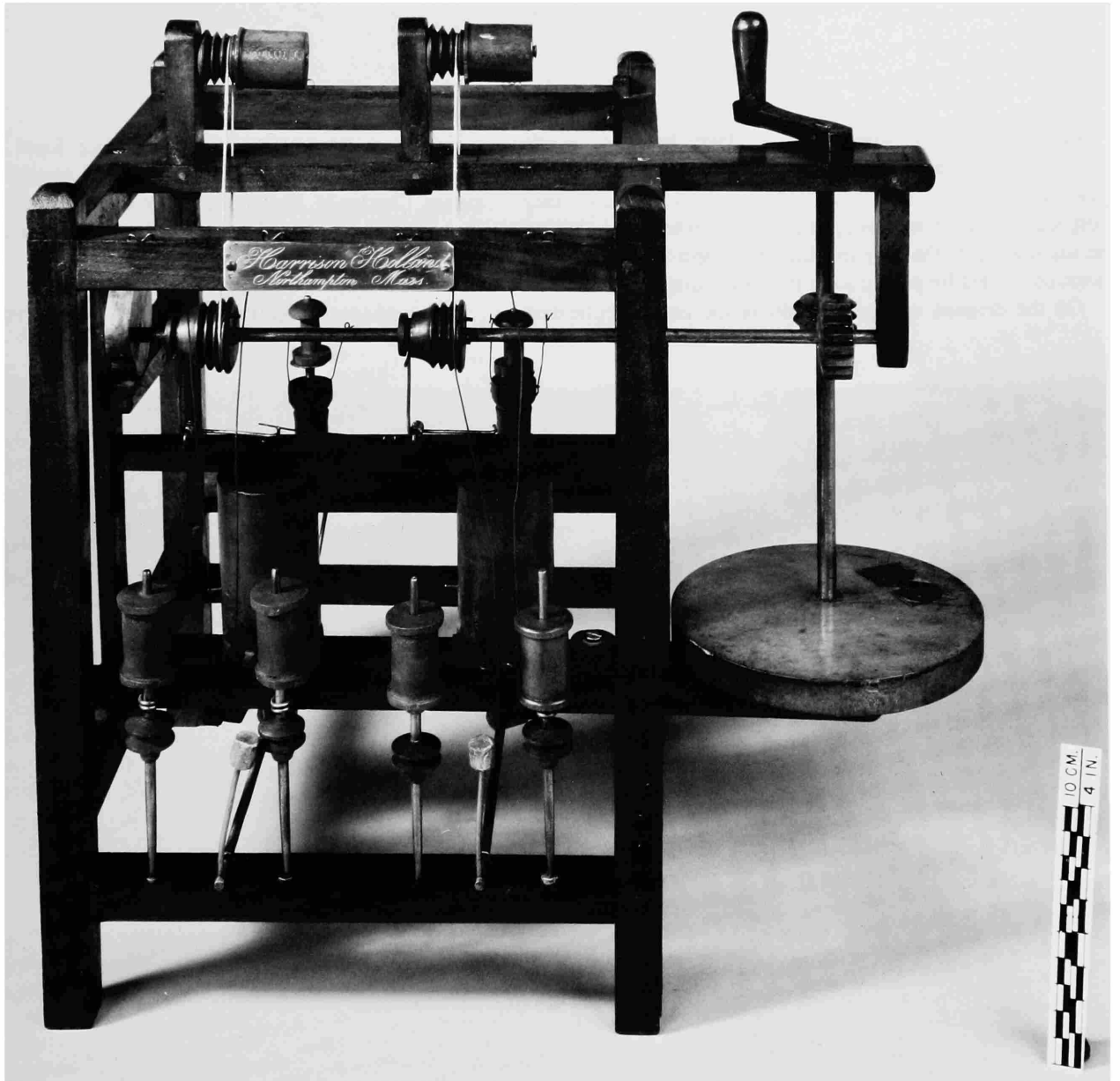


FIGURE 47.—Patent model 977. (S.I. neg. 80-15210)

PATENT 987: Loom Temple

Issued October 19, 1838

Emory A. Angell

Killingly, Windham Co., Connecticut

In his patent specification, Angell stated that "this temple is of the kind which holds the selvage of the cloth between jaws, which are opened by the beat of the lathe, and is in many respects similar to such as have been long in use." He claimed as his invention, the way in which the upper and lower jaws were connected by pins to form the hinge-joints.

On the original wrapper containing the patent application

papers is a faint handwritten note, "see Saml P. Mason's Temple July 1837."¹ In the process of checking Angell's patent, Charles M. Keller, the patent examiner, probably wrote that notation but found no conflict with Mason's patent 291 and thus granted Angell his patent.

¹National Archives Record Group 241: Patent Application Files, patent 987.

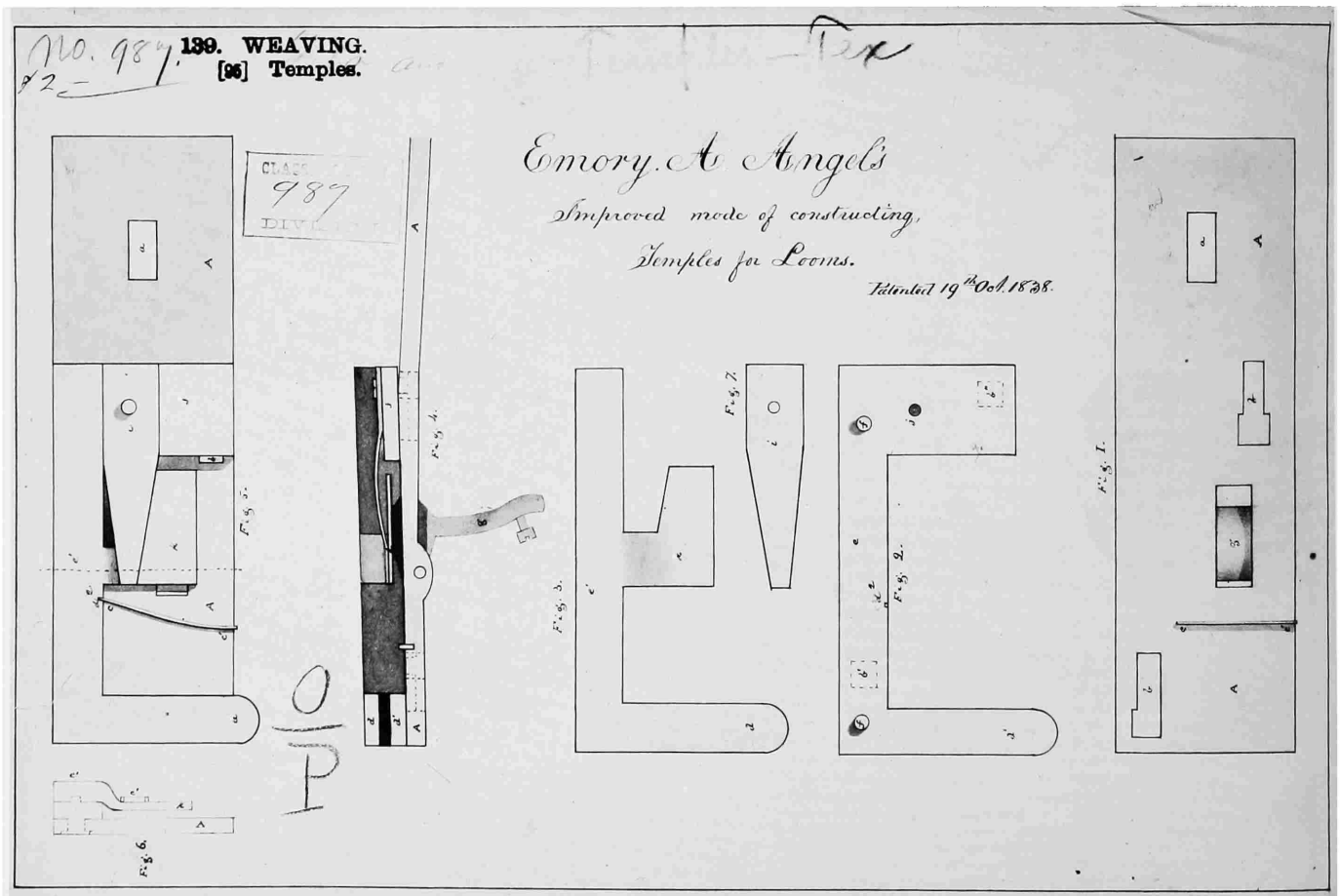


FIGURE 48.—Patent drawing 987. (U.S. National Archives)

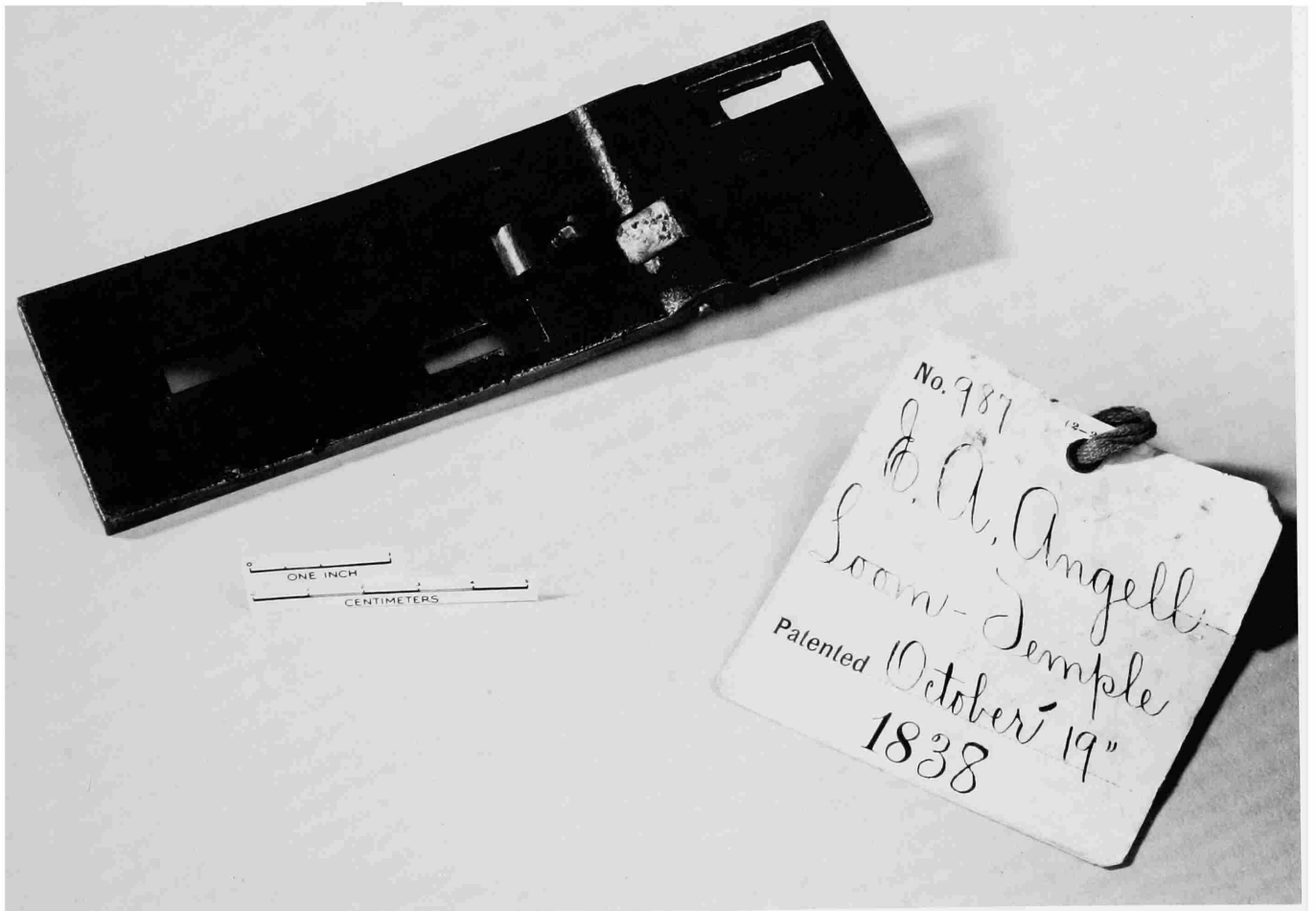


FIGURE 49.—Patent model 987. (S.I. neg. 80-15213)

PATENT 1015 and RESTORED PATENT 3082x: Cloth Shearing Machines

Issued November 25, 1838, and March 2, 1819

Seth Parsons

Hoosick Falls, Rensselaer Co., New York



Seth Parson's patent 1015¹ was an improvement on his earlier patent 3082x. The later patent resembled the earlier one but differed from it by its ability "to shear broad and narrow cloths, the machine operating upon [the cloth] in its passage

back and forth both ways without changing it from end to end, thereby saving much time"² Also claimed was the motion of a brush that would brush the nap in either direction and a few other minor construction details.

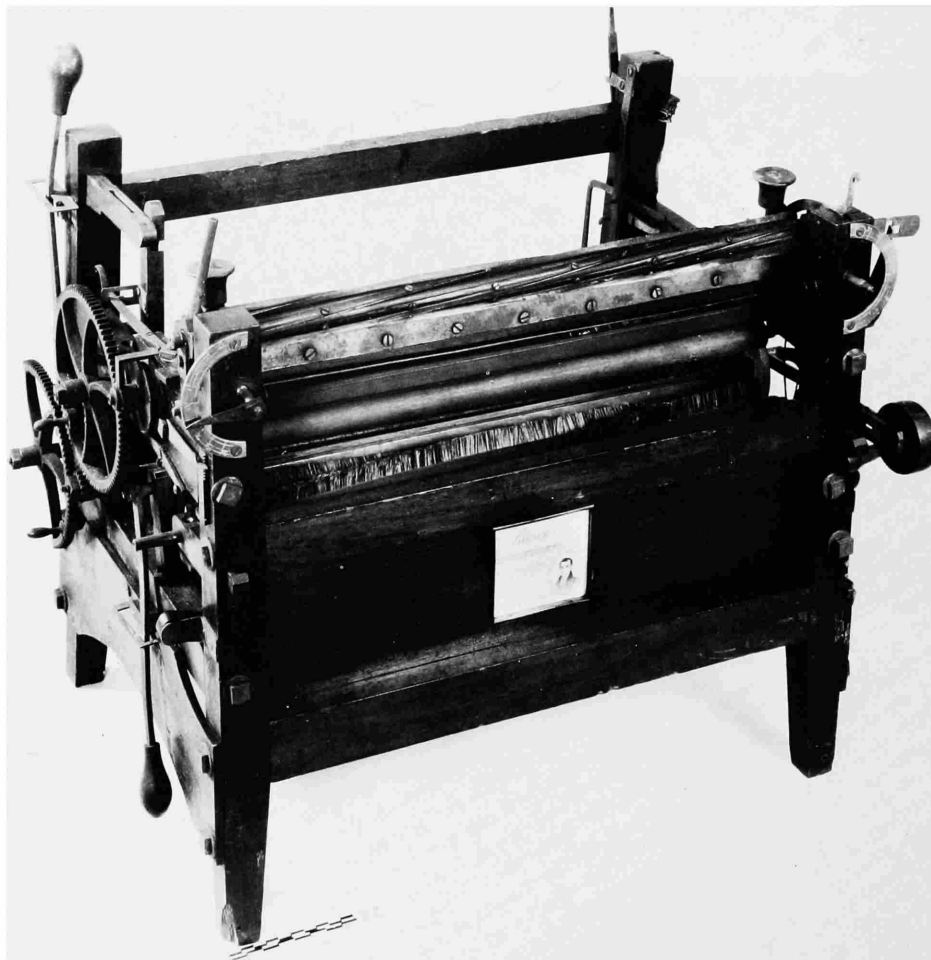


FIGURE 50.—Patent model 1015. (S.I. neg. 82-3603)

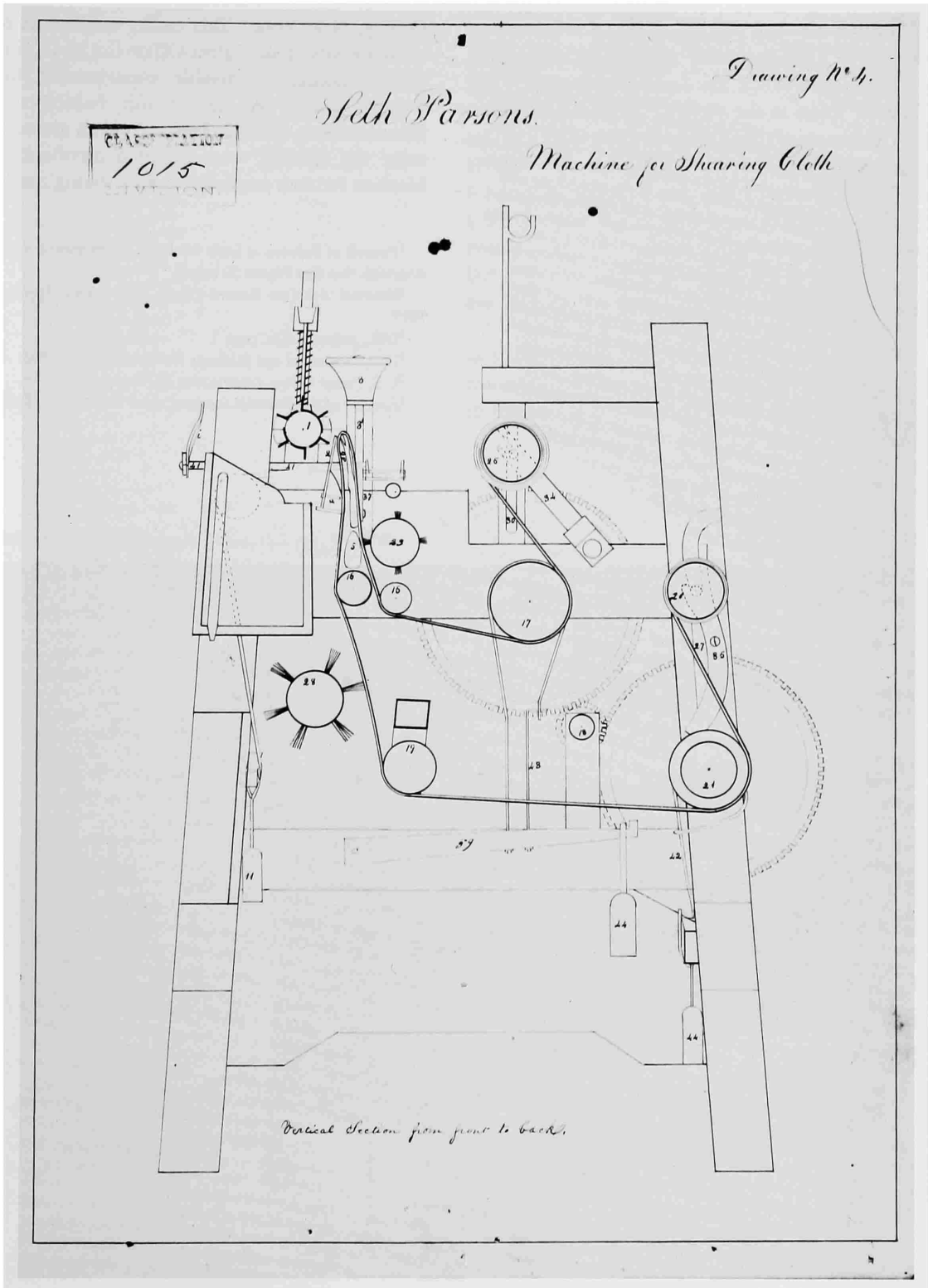


FIGURE 51.—Patent drawing 1015 (side view). (U.S. National Archives)

Parsons' patent 3082x had claimed to be an improvement on Samuel Dorr's 1794 patented shearing machine (not illustrated), which was called the "wheel of knives." The "wheel of knives" refers to the shearing cylinder, which was wrapped with blades in a spiral pattern. Parsons said of his improvement that it could be "composed of frame of suitable size, about 3 feet 7 inches long; 2 feet 4 inches wide and 4 feet high. Instead of knives on a large circle it should be a small one, about 2-1/2 inches in diameter"³ Figure 54 shows Parson's improvement of using conical-shaped spreaders and a cylindrical roller with wire teeth to stretch and advance the cloth.

In the 1820 Manufacturers Census, there is a reference to Parsons' first shearing machine being used by a woolen manufacturer, Shearwood and Goreham from Rensselaer

County, New York.⁴ This earlier machine is also mentioned in an account of the Patent Office fire of 1836 as being one of several models of valuable improvements in shearing and napping cloth.⁵ At the twelfth Exhibition of American Manufacturers, in 1842, Parsons and an associate, Wilder (full name not known), were awarded certificates of Honorable Mention for their improved cloth shearing machines.⁶

¹Portrait of Parsons is from the label on his patent model 1015 (S.I. neg. 82-2568). See also Figure 50 below.

²National Archives Record Group 241: Patent Application Files, patent 1015.

³Ibid., patent 3082x, page 1.

⁴Hitz, "Technical and Business Revolution," page 280.

⁵U.S. Patent Office, *Destruction by Fire*, pages 15-16.

⁶*Journal of the Franklin Institute*, third series, 4(1842):342.

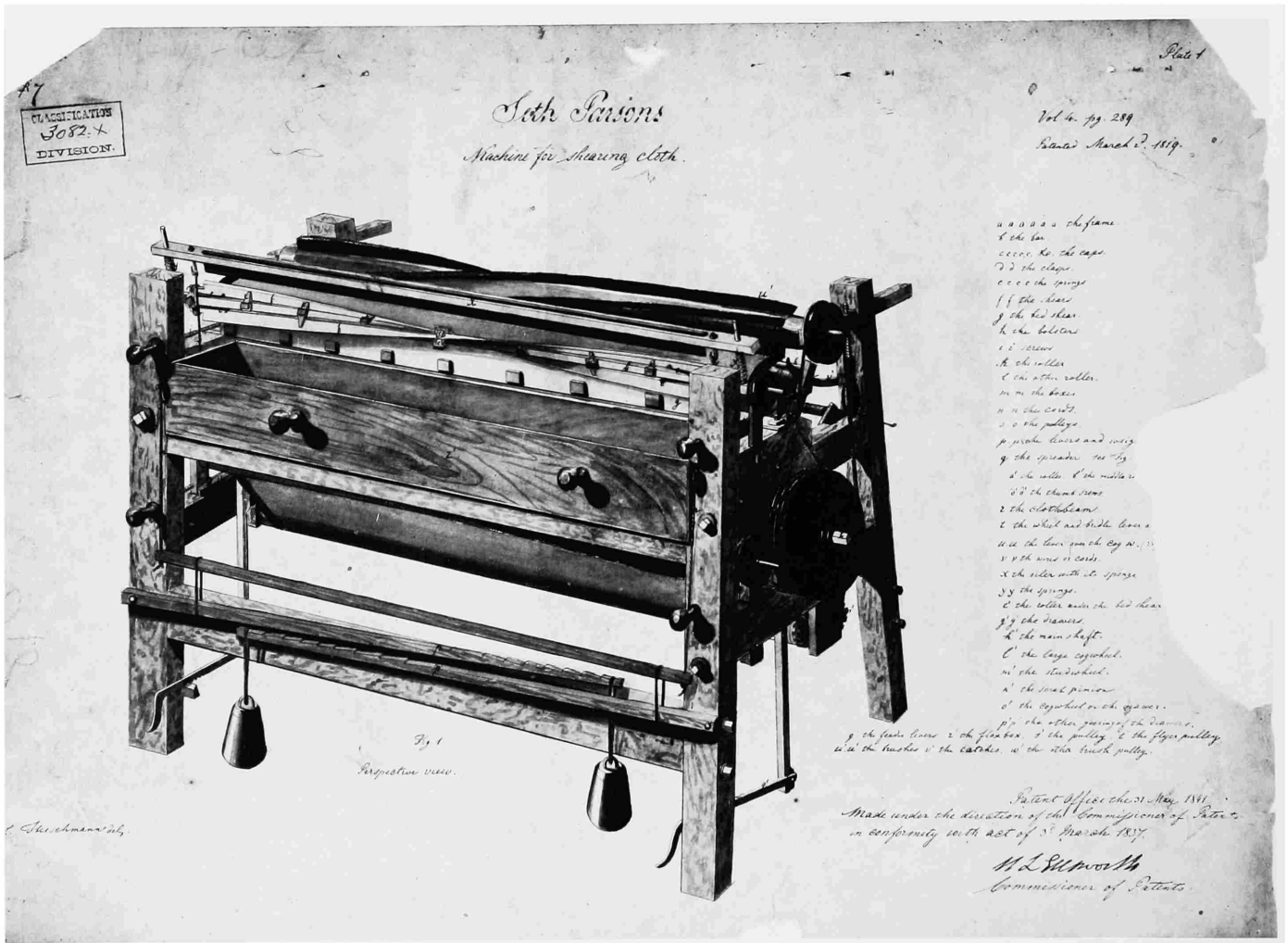


FIGURE 52.—"Fig. 1" of restored patent drawing 3082x. (U.S. National Archives)

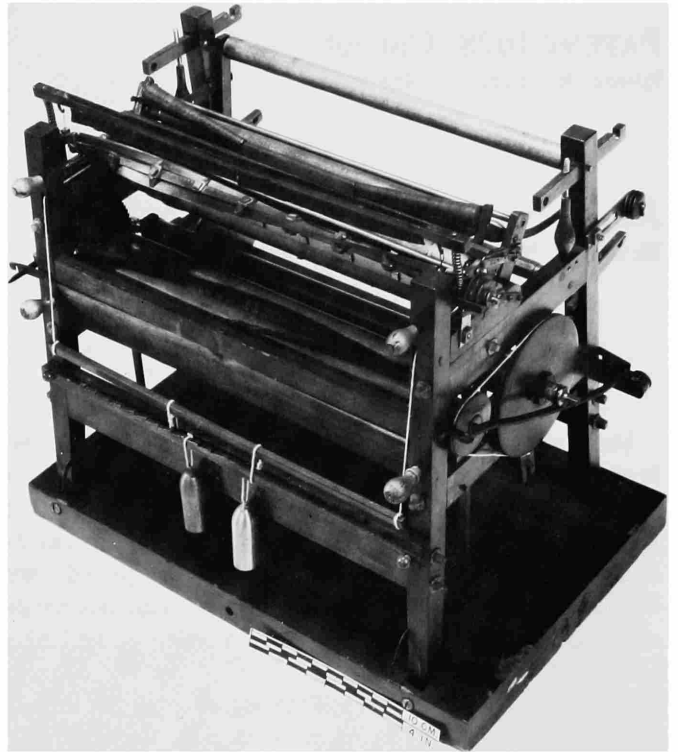
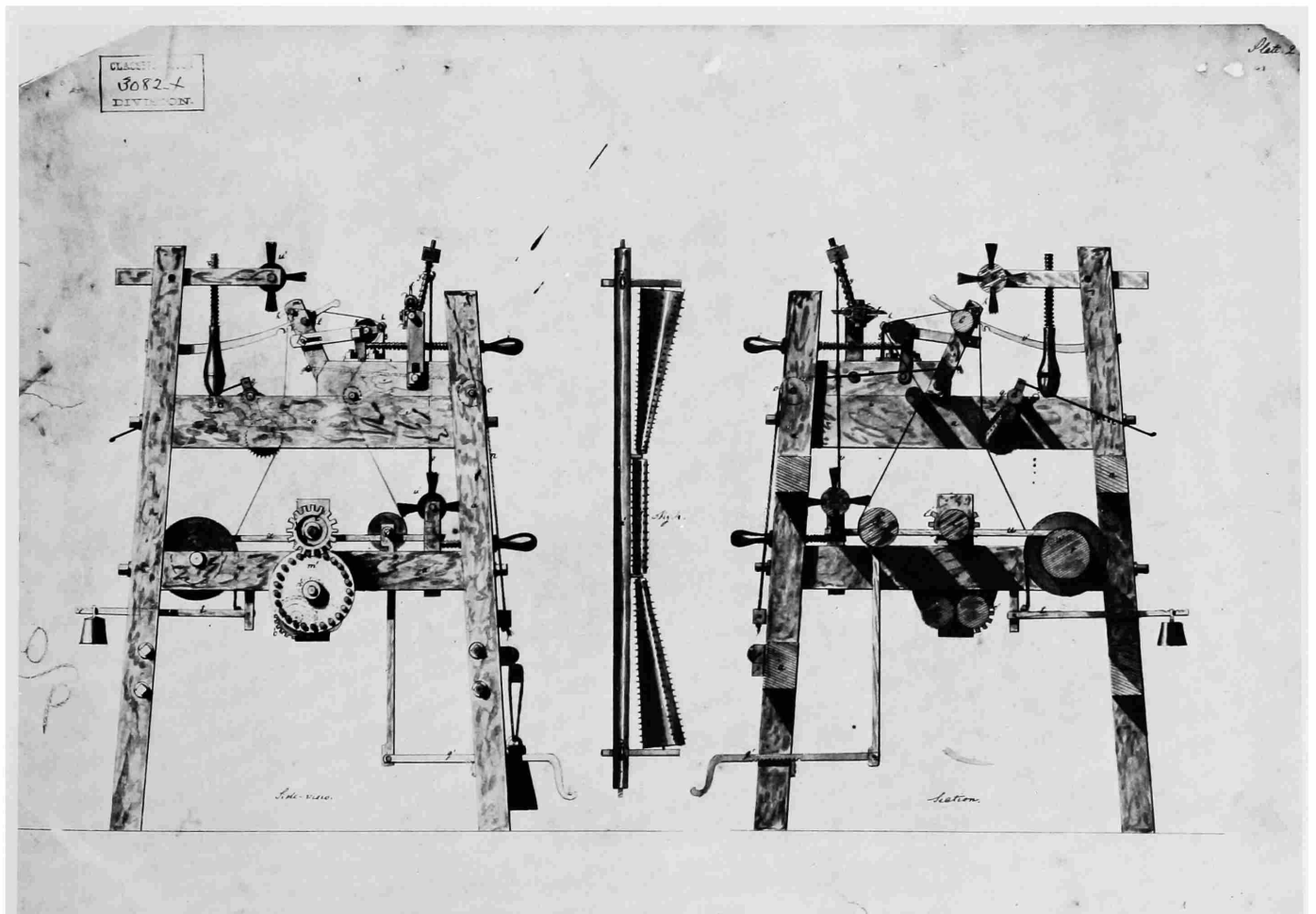


FIGURE 53 (right).—Restored patent model 3082x. (S.I. neg. 81-4416)

FIGURE 54 (below).—"Fig. 4" of restored patent drawing 3082x, side views and spreaders. (U.S. National Archives)



PATENT 1028: Carpet

Issued December 10, 1838

John Humphries

New York, New York Co., New York

Humphries' innovation was the addition of a supplementary layer to the bottom of a carpet to provide an extra cushion and to strengthen the overall structure. The added stuffer weft (Figure 56) is a stout, loosely twisted cord, woven into the underside of the carpet and interlaced with the ground warp. These samples of carpeting are important because they are the earliest known examples of patented carpeting in the United States.

Whether this patent was utilized is unknown but there is evidence of Humphries' being involved in the manufacture of

carpeting. The *Journal of the Franklin Institute* lists premiums awarded at their eighth exhibition in 1833. John Humphries was presented a premium for four pieces of Brussels carpeting. The judges noted that "these goods are of excellent quality and style, and satisfactory assurances have been received that they are exclusively of American workmanship throughout all the processes, from the raw material to the finished product of the loom."¹

¹The *Journal of the Franklin Institute*, new series, 12(1833):387.

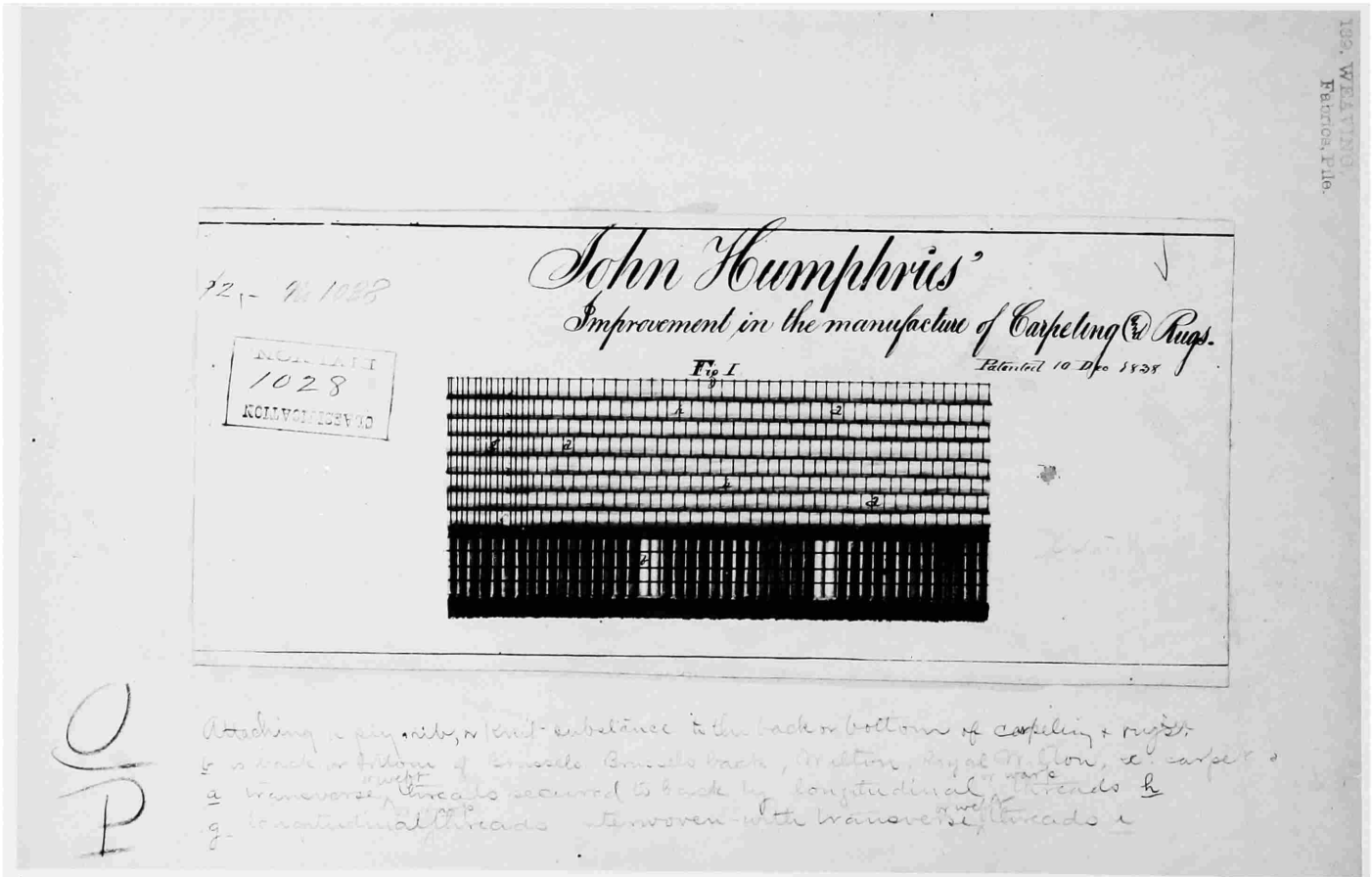


FIGURE 55.—Patent drawing 1028. (U.S. National Archives)

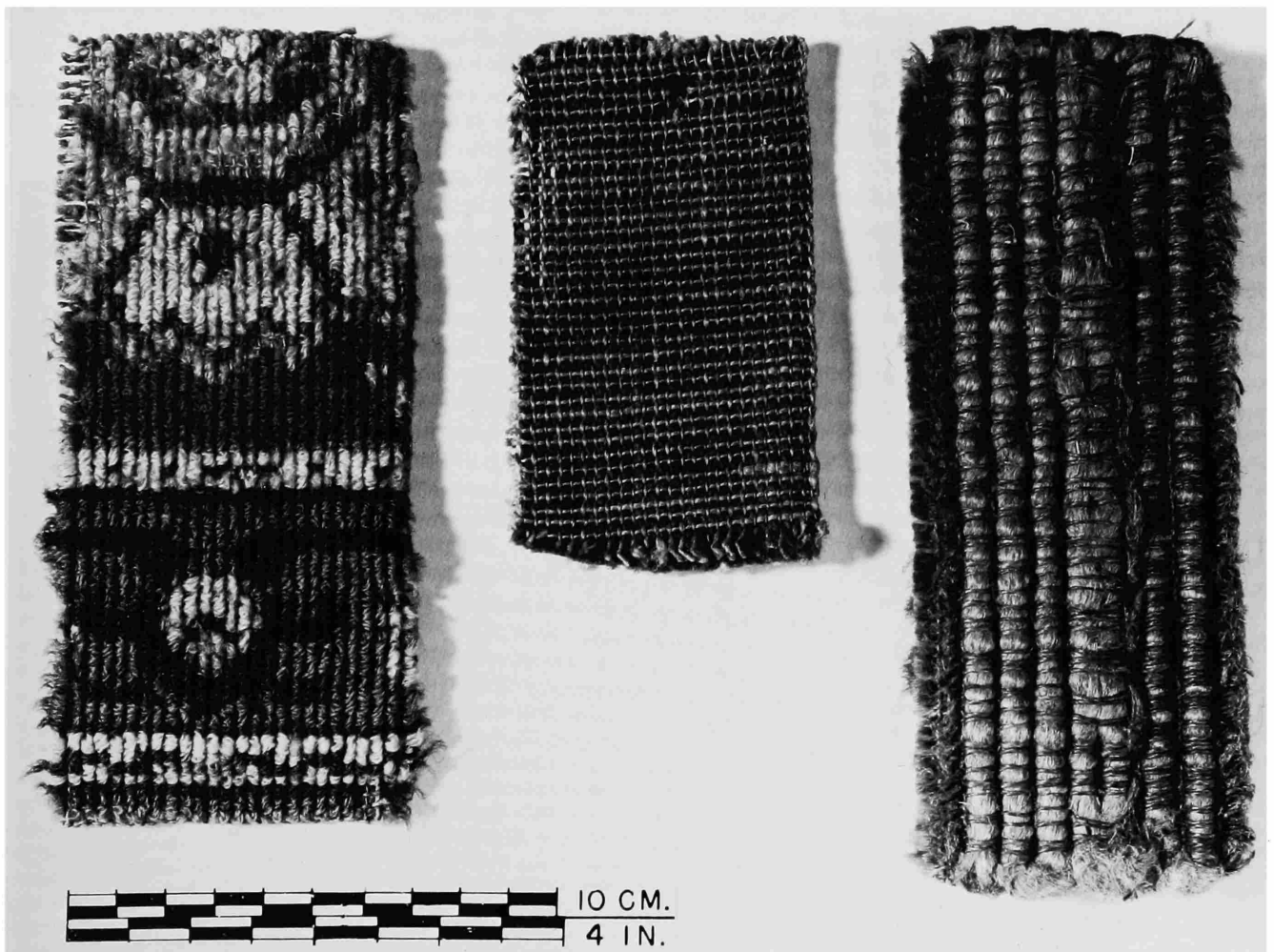


FIGURE 56.—Patent model 1028, carpet. These three pieces of carpeting were submitted as Humphries' patent. Only the Wilton carpet on the right has the added cord. The carpet on the left is a piece of Brussels and the piece in the middle is the underside of a Wilton carpet. (S.I. neg. 81-9858)

PATENT 1043: Spindle and Flyer

Issued December 28, 1838

John Howarth and Nathan F. Jones

Andover, Essex Co., Massachusetts

Howarth's and Jones' patent covered certain improvements on flyers and spindles attached to machinery (such as throstles or spinning frames) where a twisting apparatus was needed. The improvements were useful for roving and spinning cotton or other fibers.

They experienced some delay in obtaining a patent and hired R.H. Eddy of Boston, a patent attorney, to represent them. Their original claims were abridged and condensed. In the last letter (December 1, 1836) from Eddy to Commissioner of Patents Henry Ellsworth, Eddy returned the amended specifica-

tion without any other essential changes in it and said: "...leaving it to your discretion to reject or admit the claim But I supposed that the arrangement and combination of these different parts with each other might show sufficient novelty to constitute and claim to a patent."¹ Presumably with Eddy's help, Howarth and Jones were able to receive their patent in 1838.

¹National Archives Record Group 241: Patent Application Files, patent 1043.

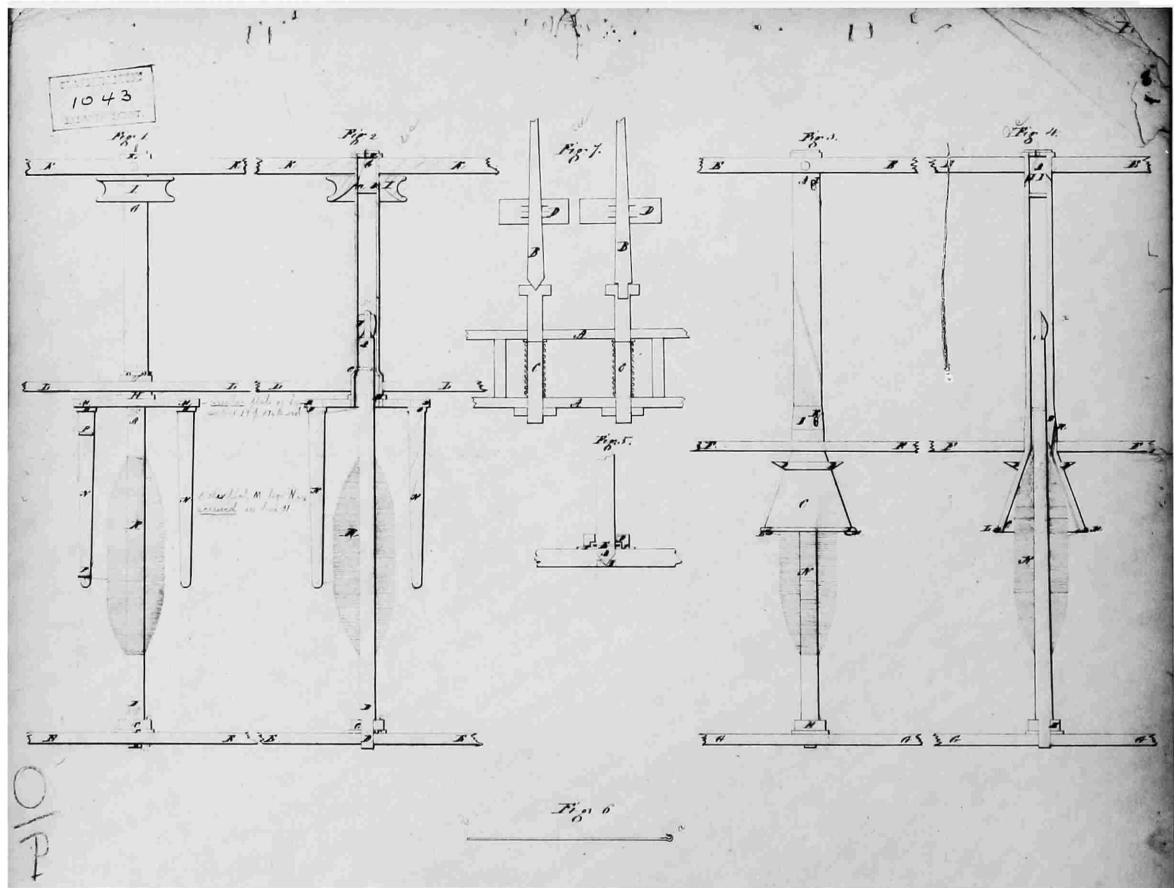


FIGURE 57.—Patent drawing 1043. (U.S. National Archives)

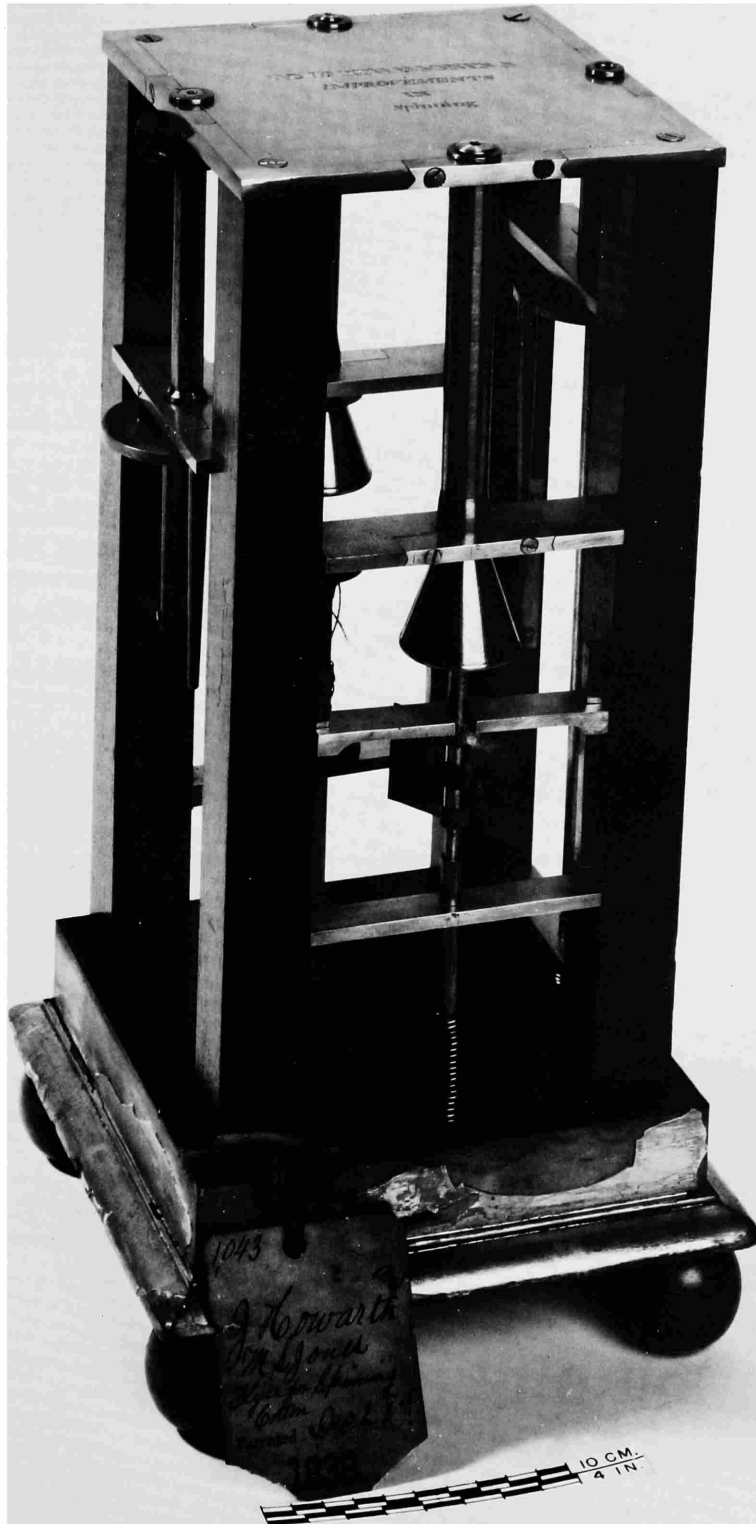


FIGURE 58.—Patent model 1043. (S.I. neg. 81-13336)

PATENT 1051: Loom Harness

Issued December 31, 1838

John Thorp and William G. Angell

Providence, Providence Co., Rhode Island



Thorp's and Angell's "extra-eyed flat knot" harness consisted of one or more rows of eyes for every heddle, so that rather than using the same row of eyes each time when weaving, warp yarns could be shifted into another row of eyes. By this addition, wear on the eyes was reduced substantially. The knots that made the eyes were also flattened so that the warp yarns could pass through more easily. These changes were alleged to make the harness more durable than the single-eyed harness. Also patented was the way in which the heddles were fastened to the back-band of the harness.

John Thorp (1784–1848)¹ gained distinction for his invention of ring spinning, which established the basis of modern spinning. His two patents of 1828 (5280x and 5322x) and his patent of 1844 (3766) were the basic patents for continuous spinning and twisting. Unfortunately, although brilliant in theory, Thorp's invention, which had the potential for high speeds at less power, had mechanical problems. These problems precluded the commercial use of his patents and in fact prejudiced many against his concept of ring spinning. It

was not until the 1840s, when others, such as William Mason, had added improvements, that the ring frame started to become commercially accepted.²

Thorp spent most of his life in or near Providence, Rhode Island, which was the center for cotton spinning in the United States. He was associated with Thomas and William Fletcher, North Providence Braid manufacturers, but eventually established a separate business as a machinist and later as a machine builder.³

Besides his various spinning patents, Thorp also patented a hand and water loom, 1812; a power loom, 1816; two braiding machines, 1821 and 1826; a netting machine, 1828; and a narrow fabric loom, 1829.⁴

As was typical of many inventors, Thorp was unable to financially capitalize from his inventions. There were several reasons for this; first was his failure to simplify the ring frame, and second his failure to protect his patent rights in court. Finally, he lacked the business acumen and capital to manufacture and sell his own machinery, which would have freed him from reliance on others to produce and market his inventions.⁵

William Gorham Angell (1811–1870) worked in the carpentry trade of his father until about 1831. He then entered into partnership with his uncle, John Gorham, manufacturing loom-reeds. It is presumed that they used a machine for making loom-reeds that Angell had invented previously. After 1838 Angell became involved with the manufacture of screws and was the President of the American Screw Company for many years.⁶

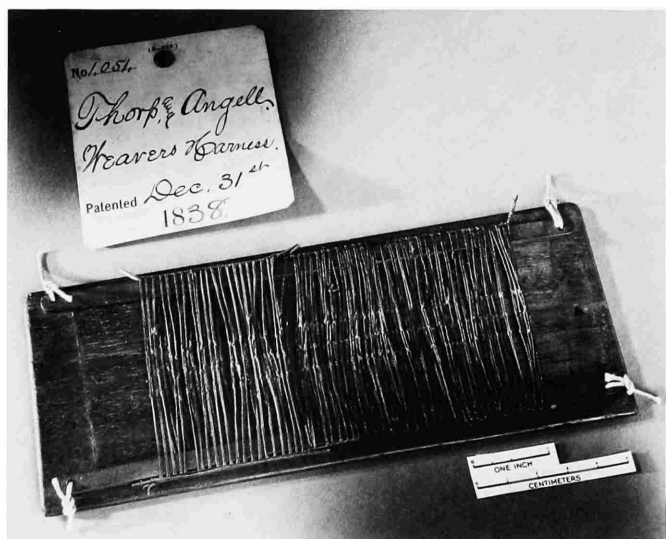


FIGURE 59.—Patent model 1051. (S.I. neg. 80-16794)

¹The above daguerreotype (ca. 1843–1845, from the April/June 1928 issue of *Textile World*) is believed to be of John Thorp (S.I. neg. 80-15689).

²Clark, "John Thorp," 124/125(1928):72, 79–80. Lozier, "Taunton and Mason," pages 207–228. Navin, *Whitin Machine Works*, pages 34–35.

³Clark, "John Thorp," pages 85, 89.

⁴*Ibid.*, page 77. Lozier, "Taunton and Mason," page 77.

⁵*Ibid.*, page 228. Clark, *op.cit.*, pages 90–92.

⁶*The Bibliographical Cyclopaedia of Representative Men of Rhode Island* (Providence: National Bibliographical Publishing Co., 1881), page 374.

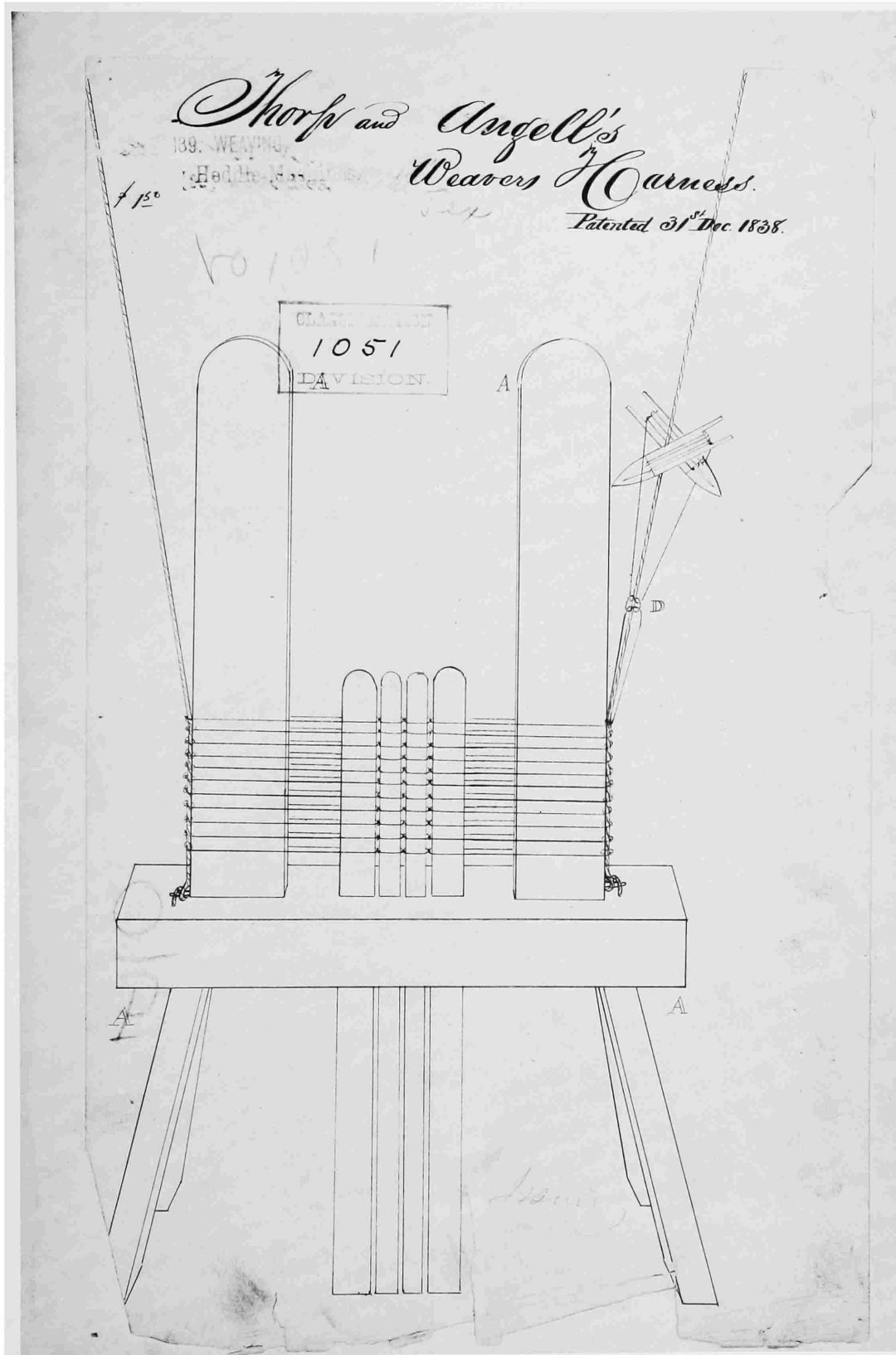


FIGURE 60.—Patent drawing 1051 shows the heddles in the process of being constructed on a harness bench. (U.S. National Archives)



FIGURE 61.—Patent model 3766. (S.I. neg. 80-15211)

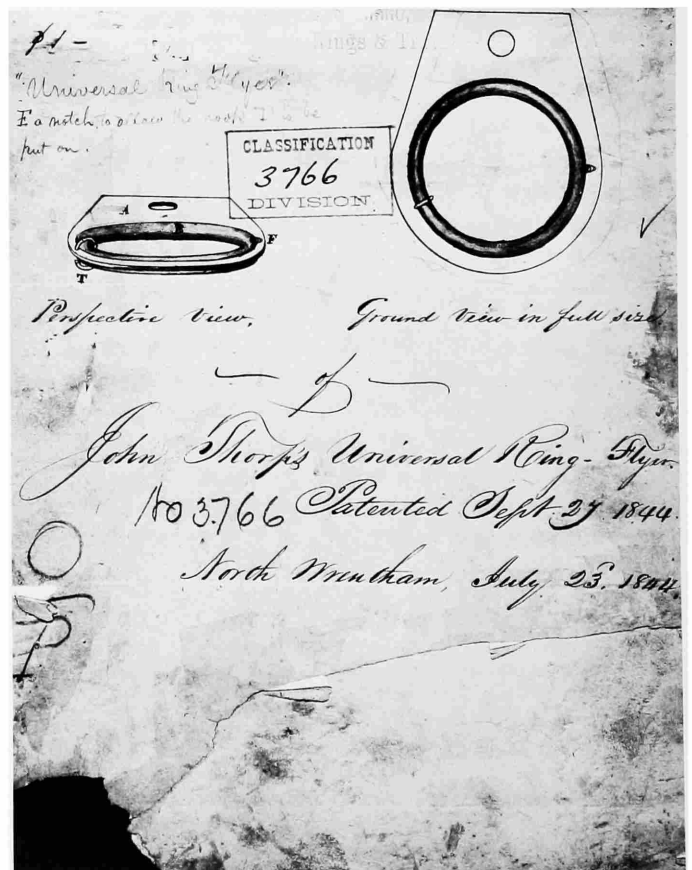


FIGURE 62.—Patent drawing 3766. (U.S. National Archives)

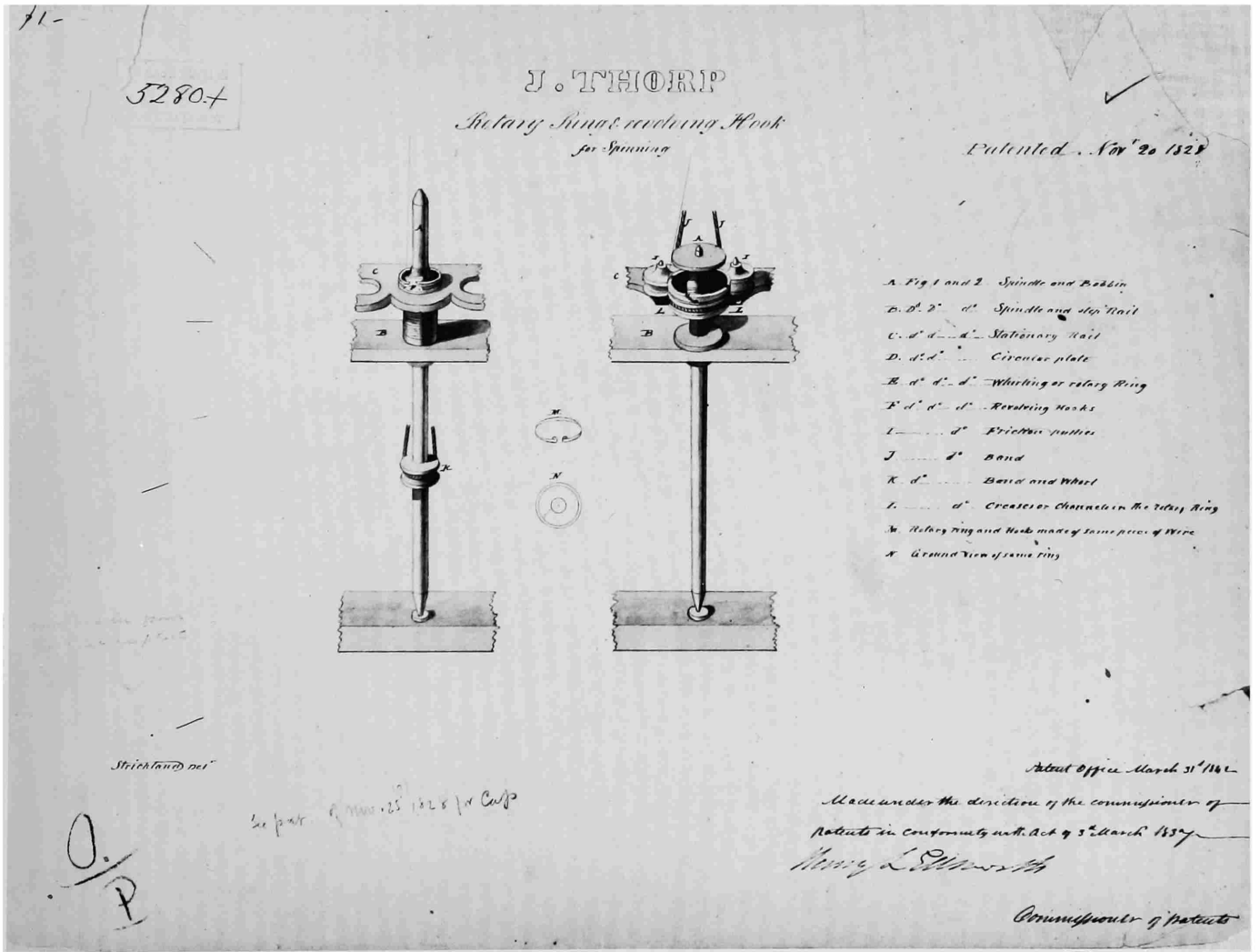


FIGURE 63.—Restored patent drawing 5280x. (U.S. National Archives)

PATENT 1080: Loom Temple

Issued February 13, 1839

Kendall Gibbs

South Berwick, York Co., Maine

As with the Mason and Angell temples (patents 291 and 987), Gibbs' temple was noted as being "a very near resemblance to some temples which have been previously in

use"¹ His patent primarily covered the action of the jaws, as controlled by a joint for one operation and a spring for another.

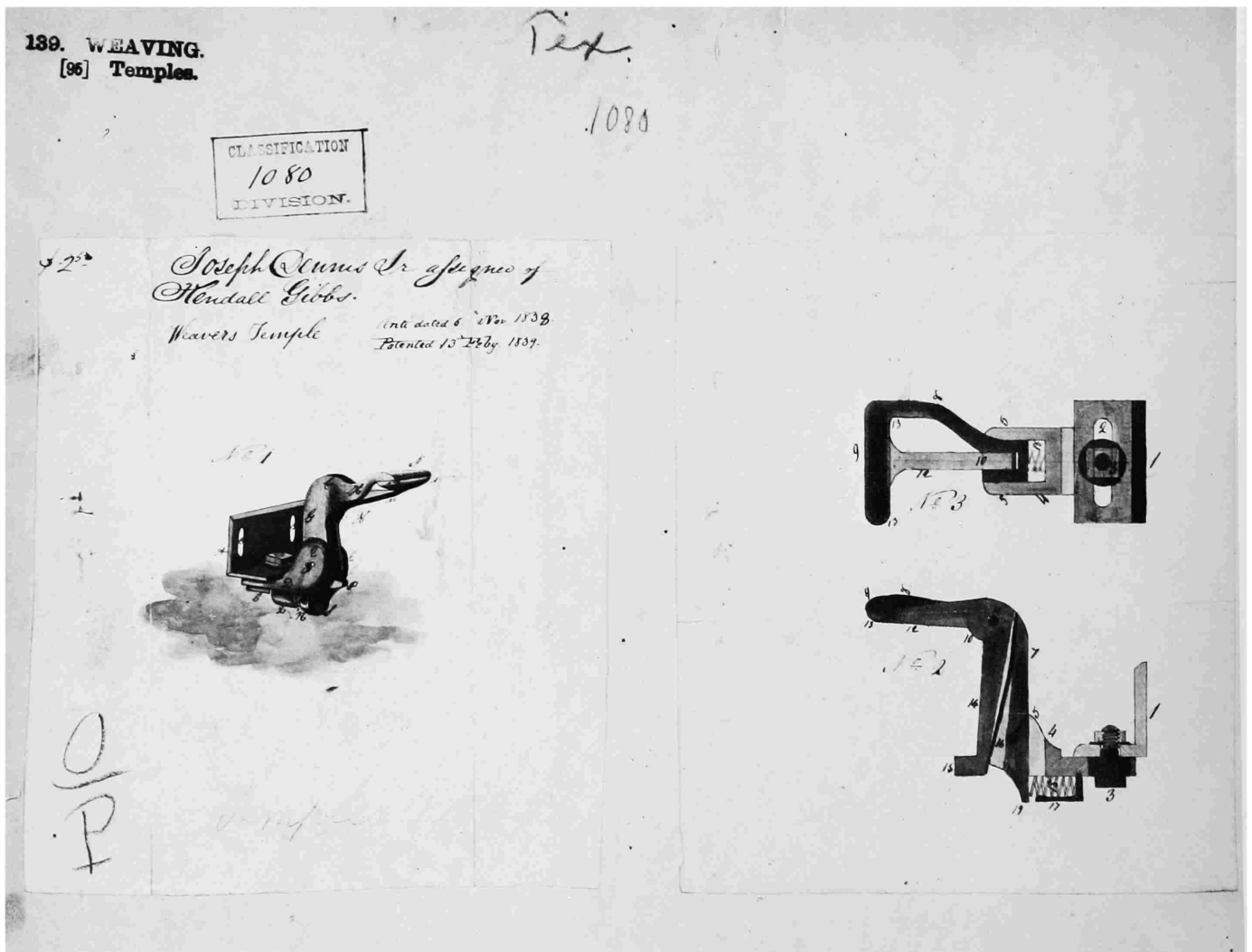


FIGURE 64.—Patent drawing 1080. (U.S. National Archives)

Gibbs assigned his patent to Jonathan Dennis, Jr. (of Portsmouth, R.I.), who in turn paid the required thirty dollar patent fee in exchange for the patent rights.² [Note that Figure 69 wrongly cites assignee as "Joseph."]

Although nothing is known about Gibbs, further information concerning Dennis relates to his other inventions. On December 28, 1838, he received two patents, 1040 and 1041, both for machines designed to wind silk. At the tenth Exhibition of Domestic Manufacturers, held by the Franklin Institute in 1838, he was awarded an honorable mention for his silk spinning and specimen of silk.³ On June 21, 1838,

patent 799 was awarded to Dennis for a circular trough used in protecting trees from the canker worm. The editor of the Franklin Institute, Thomas P. Jones, who was also the superintendent of the Patent Office, commented on this patent: "... we will undertake to prophecy ... the trees furnished with his protectors will still be few and far between ..."⁴

¹*Journal of the Franklin Institute*, new series, 25(1840):108.

²National Archives Record Group 241: Patent Application Files, patent 1080.

³*Journal of the Franklin Institute*, new series, 23(1839):302.

⁴*Ibid.*, page 396.



FIGURE 65.—Patent model 1080. (S.I. neg. 80-16791)

PATENT 1228: Cordage Machine

Issued July 9, 1839

Alfred Hathaway

Boston, Suffolk Co., Massachusetts

Hathaway claimed that his patent would do away with long buildings, called rope walks, which were then necessary to house the machinery used in the manufacture of rope. His intent was to replace them with much smaller buildings. He admitted that this particular invention was not original and that smaller more efficient machines had been the subject of previous inventions. He thought, however, that all of the currently

patented cordage machines had some fault in construction or operation. In his machine for twisting and laying strands into cordage of various sizes, therefore, he felt that the six parts claimed in his patent specification corrected these defects. Other than these improvements, Hathaway's patent resembled other machines of the period.¹

¹*Journal of the Franklin Institute*, new series, 26(1840):108.

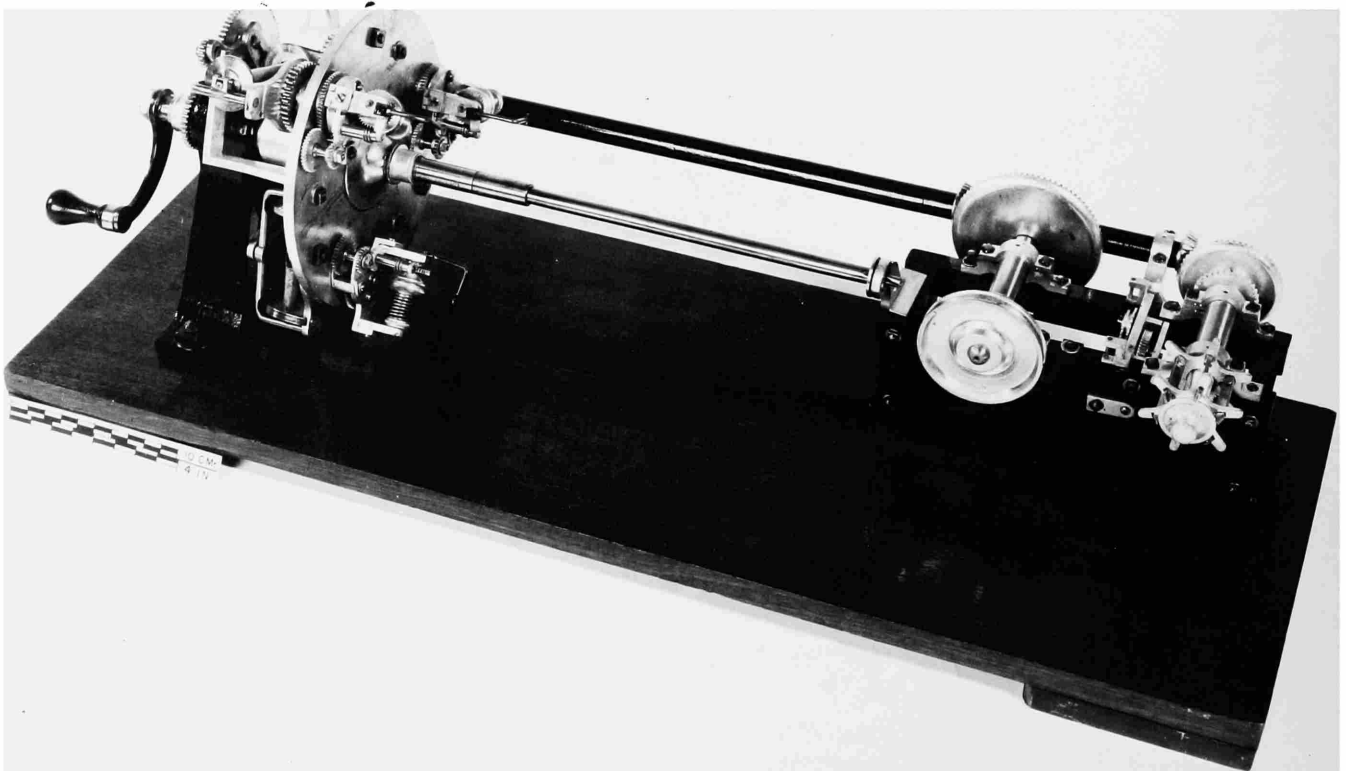


FIGURE 66.—Patent model 1228. (S.I. neg. 81-5250)

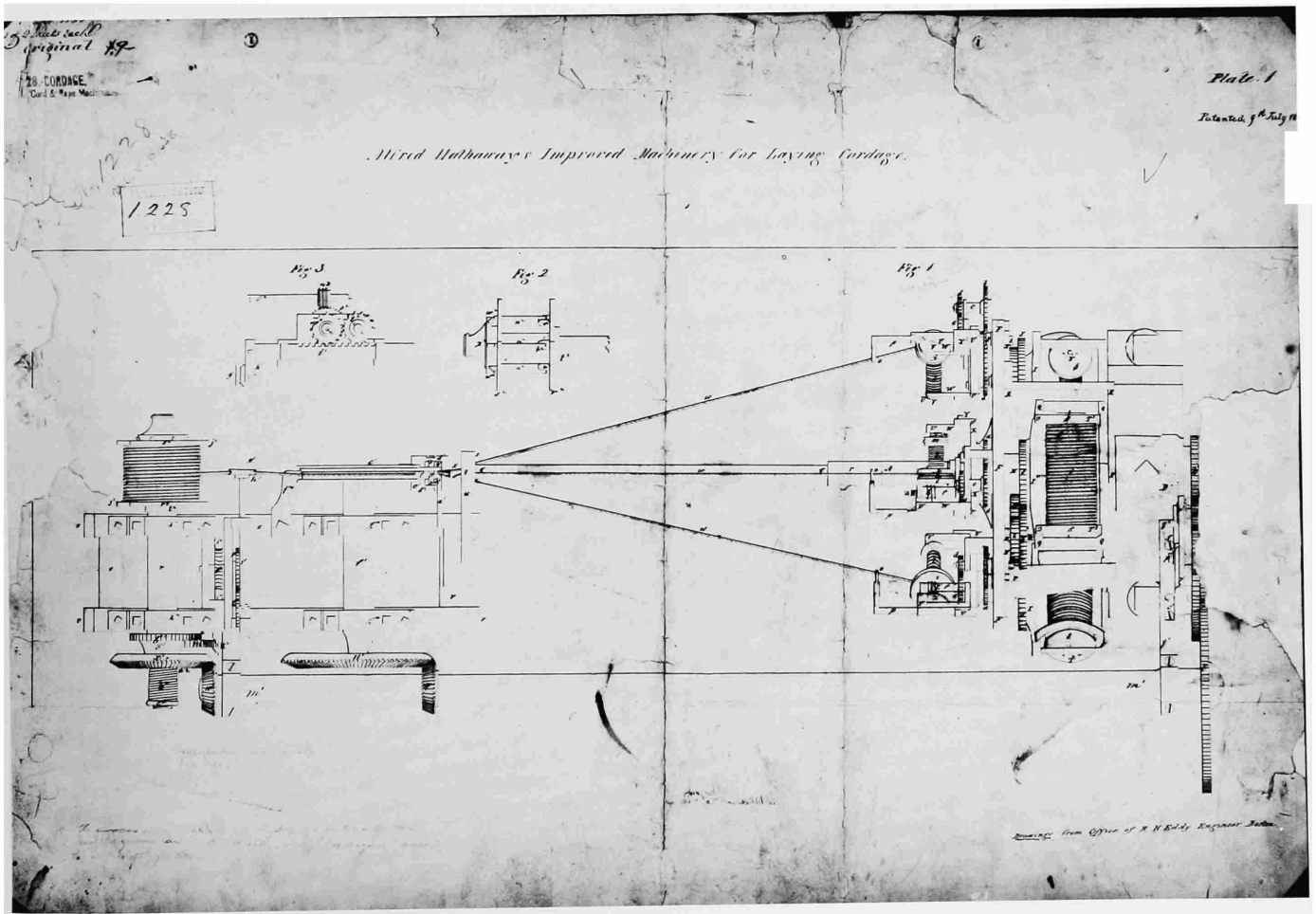


FIGURE 67.—Patent drawing 1228. (U.S. National Archives)

PATENT 1367: Reeling, Spinning, and Twisting Silk Machine

Issued October 12, 1839

Jacob Pratt

Sherborn, Middlesex Co., Massachusetts

Pratt is an example of an inventor who thought he had a more complicated original invention than he actually had. In his patent application file, his specification makes four claims. Out of those four, only one was approved by Charles M. Keller, the patent examiner, and that claim was for using a trough of zinc.¹ The trough held spools of silk fibers prior to spinning and was filled with warm water which kept the fibers from sticking together.

The *Journal of the Franklin Institute*, 1840, commented:

"Its construction is, in general, similar to such as is well known, and is not claimed as new No particular reason is given for making the troughs of zinc, and we suppose that copper would do equally well; but from the special mention of this metal we were led to look for some ground of preference to it."²

¹National Archives Record Group 241: Patent Application Files, patent 1367.

²The *Journal of the Franklin Institute*, new series, 26(1840):388.

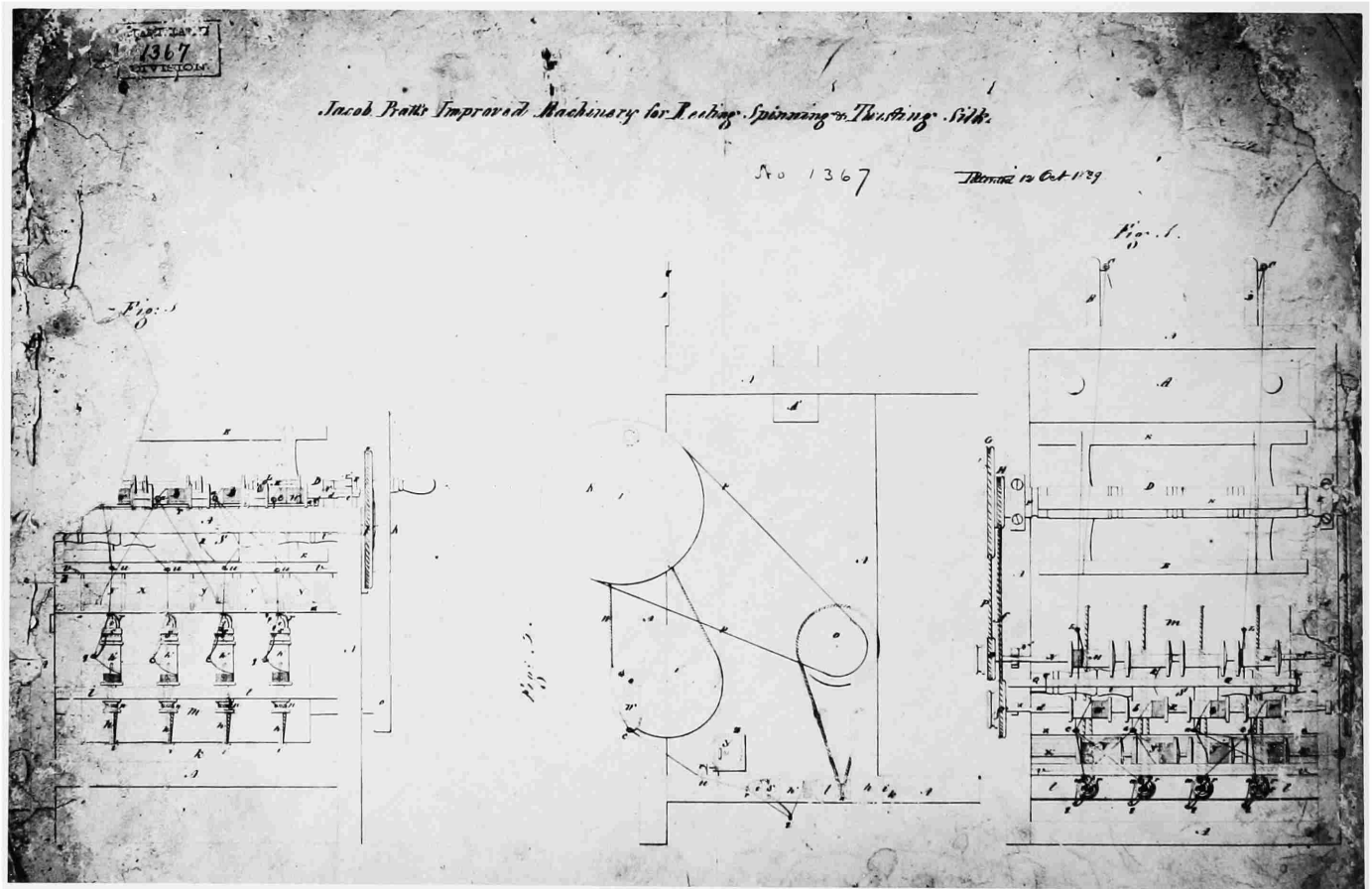


FIGURE 68.—Patent drawing 1367. (U.S. National Archives)

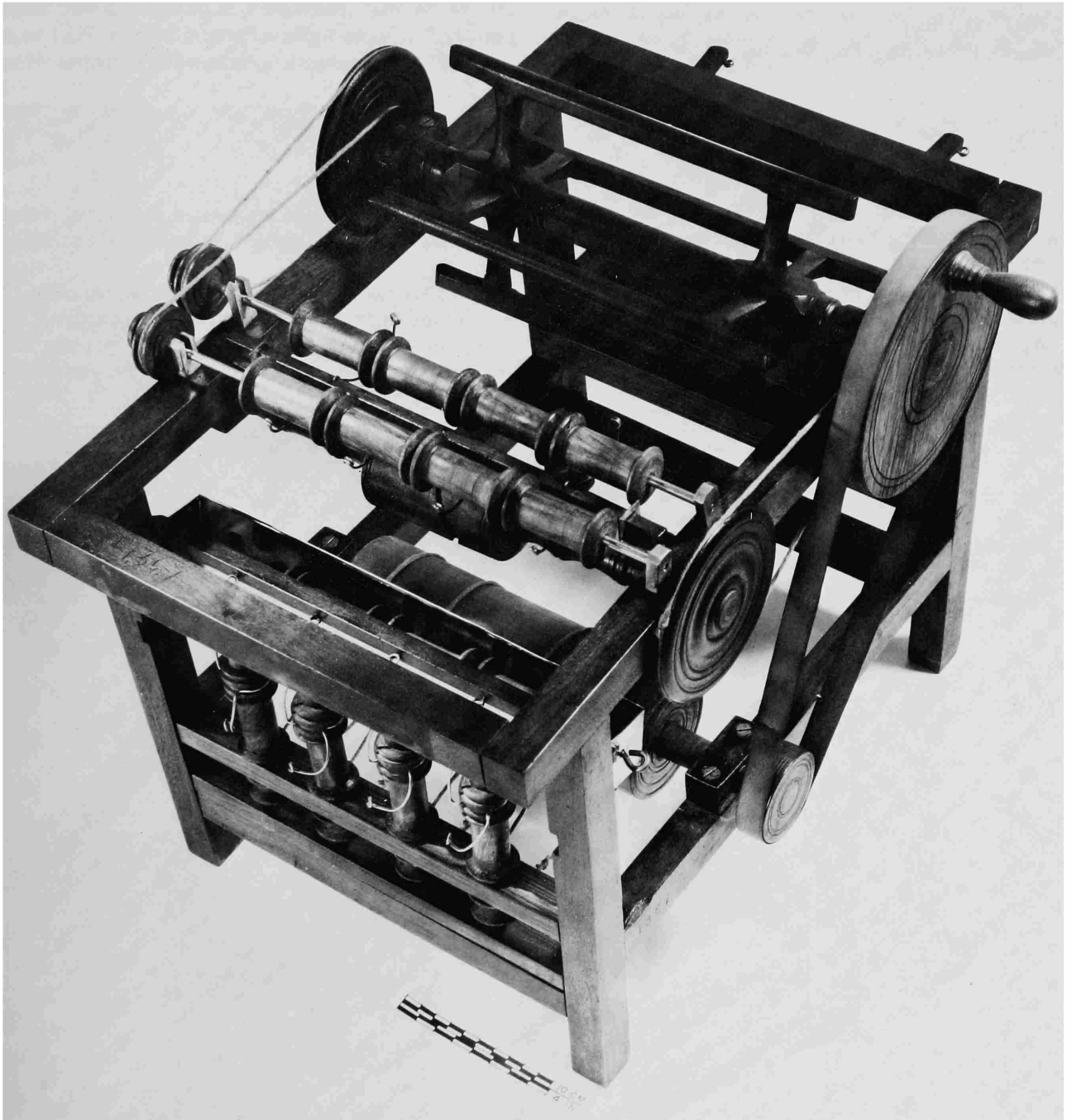


FIGURE 69.—Patent model 1367. (S.I. neg. 81-5254)

PATENT 1421: Knitting Machine

Issued December 5, 1839

Richard Walker

Portsmouth, Rockingham Co., New Hampshire

Walker's knitting machine, which he called a "rotary power stocking loom," knitted by a rotary motion and the action of a cam-shaft. The stocking loom could be operated as a single domestic machine turned by a crank or operated by belts and pulleys as would have been used in a factory. Walker claimed his arrangement made the knitting machine self-acting. He replaced the jacks, which were used in English machines, with

a carriage and roller which produced more equal pressure on the yarn and therefore enabled the knitting of a harder twisted yarn.

The 1841 *Journal of the Franklin Institute* remarked: "Those who have ever seen a stocking frame must be aware of its great complexity In the present instance an attempt is made, and we think not without success, to give the machine greater

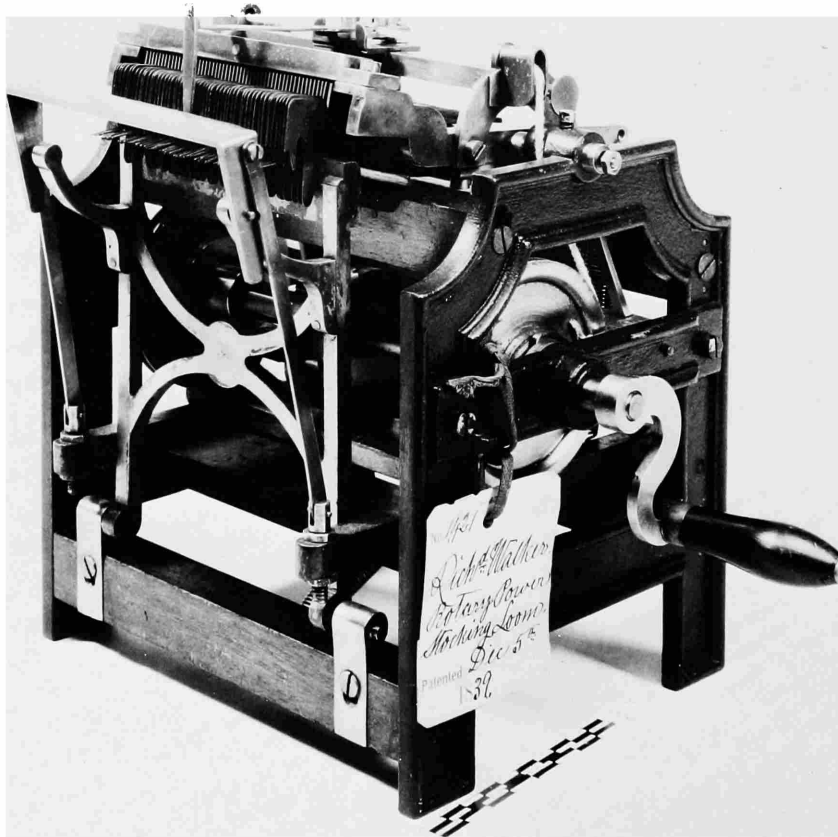


FIGURE 70.—Patent model 1421. (S.I. neg. 82-3602)

simplicity without sacrificing any of its good qualities."¹

An article in the *Daily News Record* (New York), marking the centenary of power knitting, credited Richard Walker as patenting the first power drive rotary knitting machine in America.²

Walker owned a factory in Portsmouth, New Hampshire, which in 1839, was the largest knitting factory in the United States. He employed 220 workers and manufactured 3000 pairs

of woollen stockings per week. He used his patented knitting machines in the factory.³

¹*Journal of the Franklin Institute*, third series, 1(1841):98.

²"Centenary of Power Knitting in America Marks Vast Changes in World's Industry," *Daily News Record* (New York), April 8, 1931, page 17.

³Ira J. Haskell, *Hosiery thru the Years* (Lynn, Massachusetts: Carole Mailing Service, 1956), page 48.

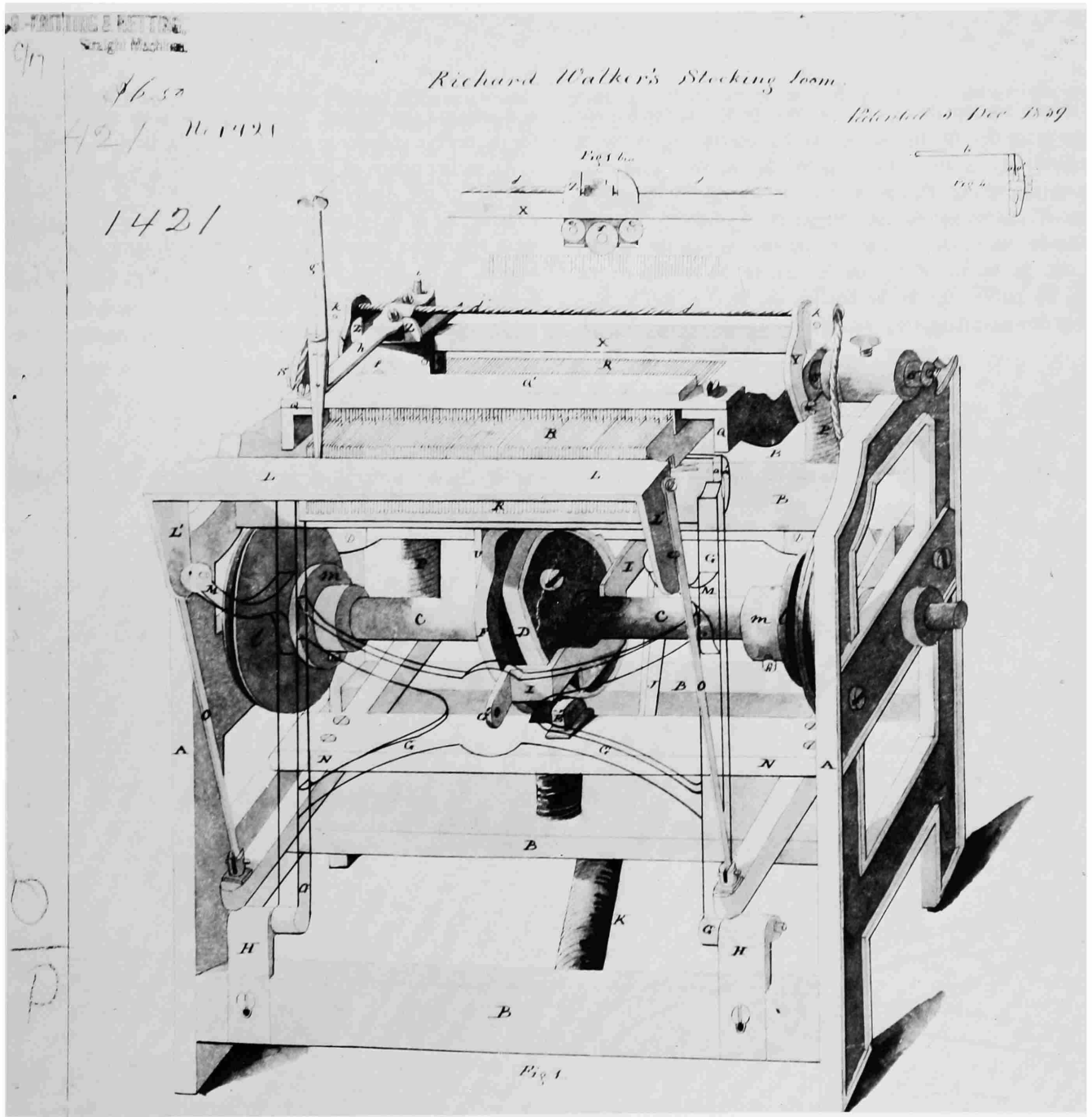


FIGURE 71.—Patent drawing 1421. (U.S. National Archives)

PATENT 1485: Loom Shuttle

Issued January 31, 1840

James Baldwin

Nashua, Hillsboro Co., New Hampshire

Baldwin's patent consisted of a steel spring and catch made in one piece that fits inside the wooden bobbin. In his patent specification he claimed this avoided the expense of separate catches and springs that were in the common shuttle as then in use. The arrangement and construction of the spring and catch were such that pushing the bobbin down on the spindle and into the mouth of the shuttle secured the bobbin on the catch. By pulling up on the bobbin, the head of the spindle pushed down on the spring, which in turn disengaged the catch

and released the bobbin. These improvements made it easier for the bobbin changer to replenish the shuttle with thread.

An earlier notice of Baldwin's loom shuttle appears in the *Journal of the American Institute*. In 1838, at the eleventh Annual Fair of the American Institute, James and E. Baldwin were awarded a diploma for an improved loom shuttle.¹ On May 3, 1859, James Baldwin was successful in having his shuttle awarded reissue patent 710.

¹*Journal of the American Institute*, 4(1840):37.

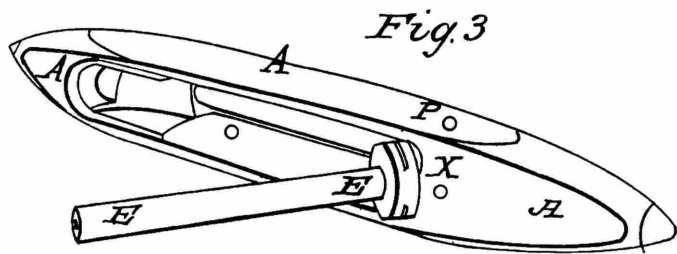


FIGURE 72.—"Fig. 3" of patent drawing 1485. (U.S. National Archives)

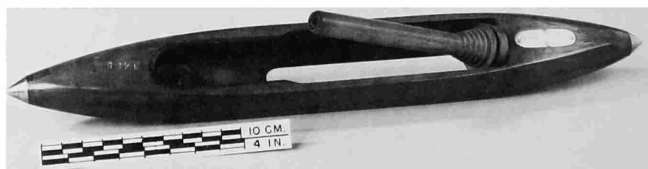


FIGURE 73.—Patent model 1485. (S.I. neg. 80-20143)

PATENT 1498: Loom Heddles

Issued February 26, 1840

John Thorp and William G. Angell

Providence, Providence Co., Rhode Island

These heddles were presented to the Patent Office in a round wooden frame, including examples of both wire and twine heddles. In the patent specification, Thorp and Angell described the dimensions of heddles for use in weaving cotton cloth on a common power loom. These dimensions could be changed, however, so that any kind of weaving could be done. A chain of the heddles was formed by taking two pieces of wire or twine and tying them with a common square knot, "which will unite them in the same way and manner that a lady ties her apron strings or a child his shoestrings."¹ The

placement of the knots resulted in the formation of the eyes of the heddles.

Thorp and Angell did not include a patent drawing with the specification. The 1841 *Journal of the Franklin Institute* remarked of this omission: "We must suppose ... that the description, although to us somewhat obscure, would be clear to a professional weaver."²

¹National Archives Record Group 241: Patent Application Files, patent 1498, page 1.

²*Journal of the Franklin Institute*, third series, 1(1841):275.



FIGURE 74.—Framed individual heddles, patent model 1498. (S.I. neg. 80-12385)

PATENT 1563: Metallic Loom Heddles

Issued April 24, 1840

Charles Strong

Hartford, Windsor Co., Vermont

The heddles are shown in the harness frame. Strong patented two improvements on the metallic heddle. One was the method of constructing the heddle eye, which consisted of soldering two pieces of thin tinned iron together with the metal strips bent to form the semicircular hole. The second improvement involved the arrangement of the heddles in two rows instead of one, which enabled higher slayed cloth to be woven.

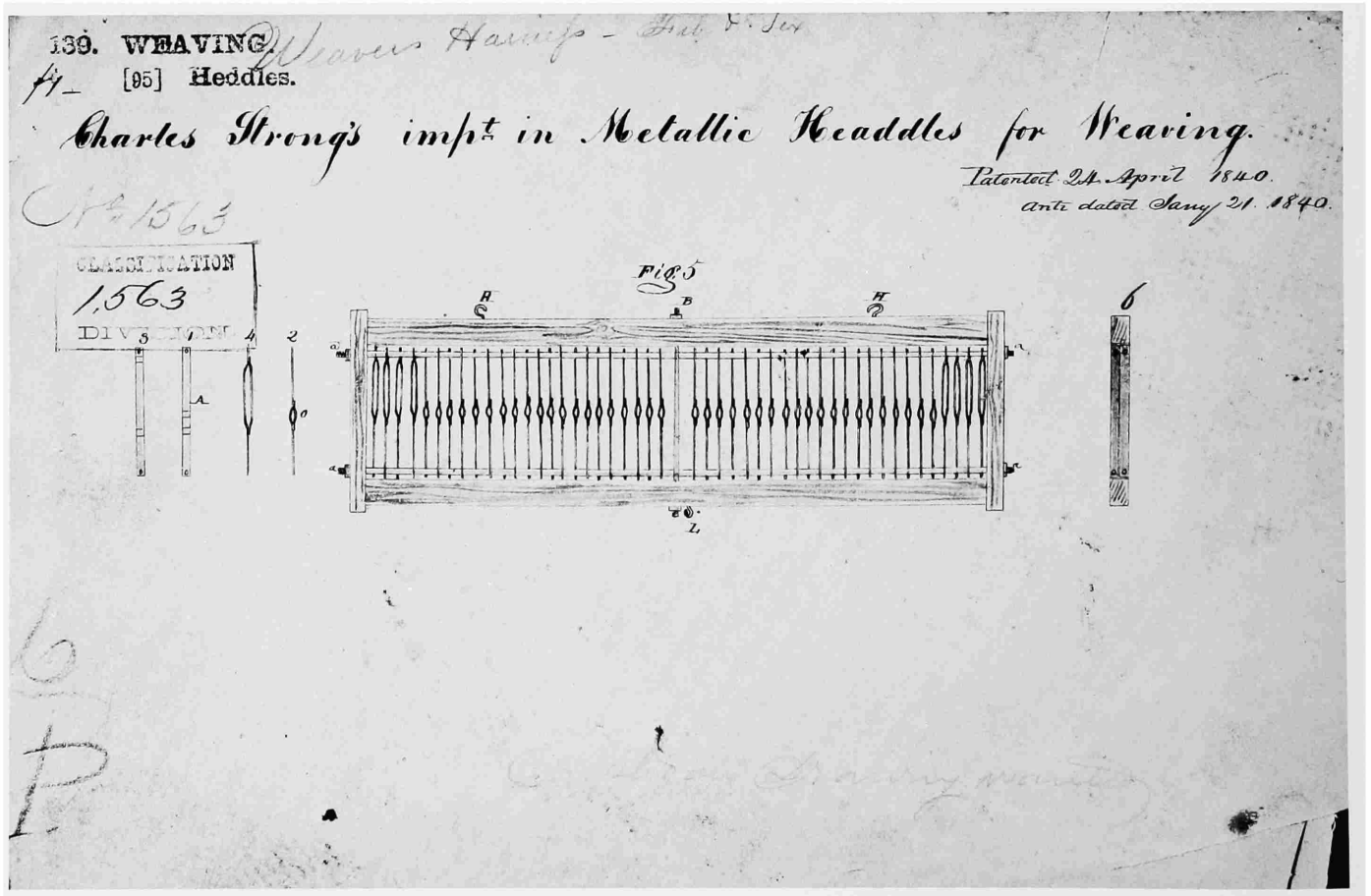


FIGURE 75.—Patent drawing 1563. (U.S. National Archives)

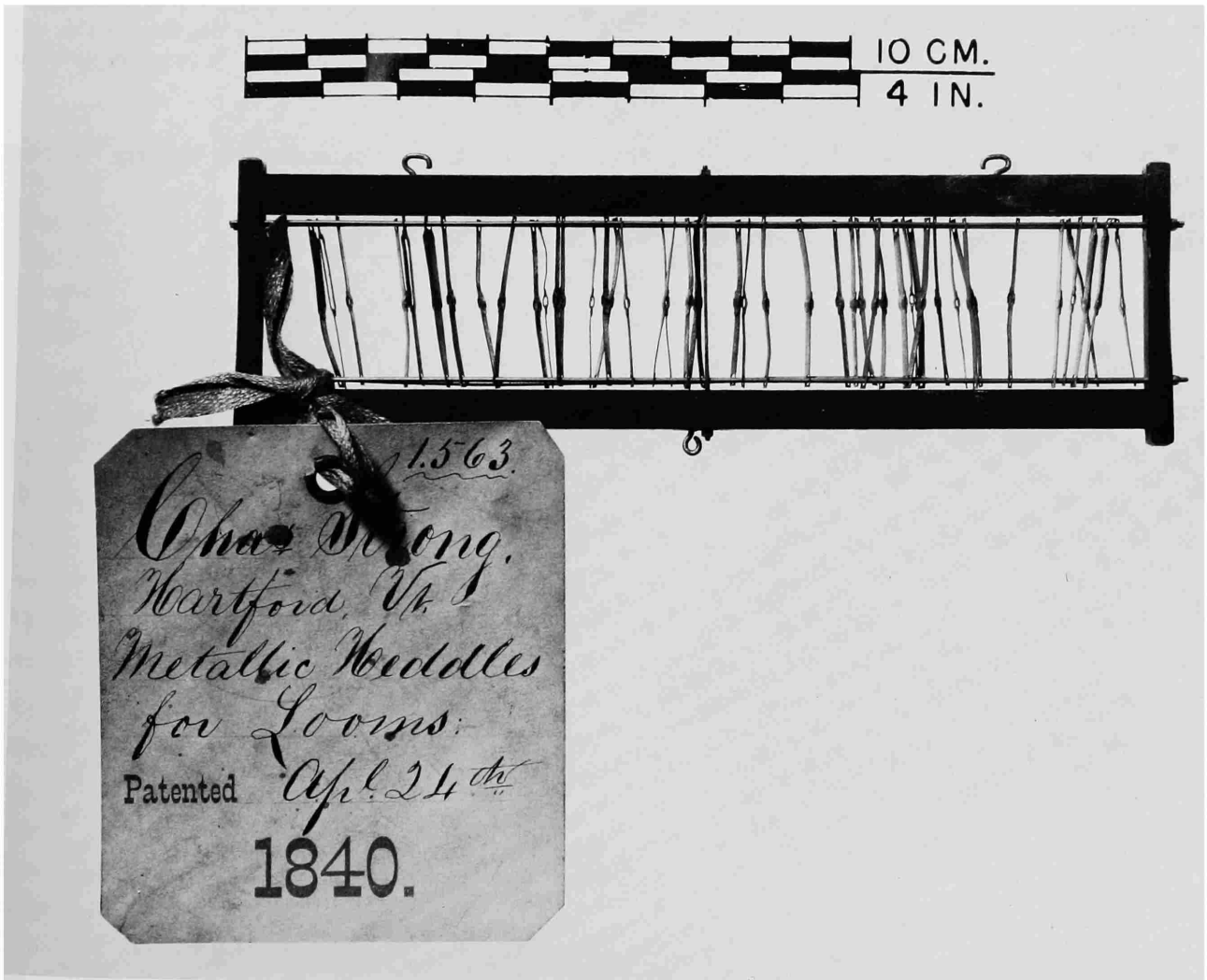


FIGURE 76.—Patent model 1563. (S.I. neg. 81-9860)

PATENT 1575: Wool and Cotton Picking Machine

Issued April 30, 1840

George C. Kellogg and Phineas Gillet

New Hartford, Litchfield, Co., Connecticut

According to the patentees, picking was improved because small matted fibers would not escape the opening and separation process. This improved feeding of the wool or other fibers was due to a combination of the feeder, shell, and picker cylinder. "Fig. 2" in the patent drawing (Figure 78) illustrates this combination. The fibers to be picked were first spread on the creeper cloth (A), then moved on to the concave shell (J) at which time the teeth of the feeder (I) engaged the fibers and brought them into contact (K) with the teeth (F) of the picker cylinder (E). (G) is a short bolt with a nut at one end.

Also patented was the method of holding the teeth in the picker cylinder, which enabled the teeth to be easily removed, sharpened, and set back in by the picker tender or a "small lad."¹ "Fig. 3" shows how the teeth were set by using a short

bolt with a nut on one end. The patentees also specified that the picker teeth were made of cast steel, the shell of cast iron, and the spur wheel of the feeder of cast and wrought iron.

It is likely that Kellogg and Gillet produced these pickers, since in their patent specification they state: "We build them in all the variety of forms and sizes to suit the order, or magnitude of the work required, and our improvements are applicable to old and new pickers of every form."² This type of information was not usually included in patent specifications.

¹National Archives Record Group 241: Patent Application Files, patent 1575, page 1.

²Ibid.

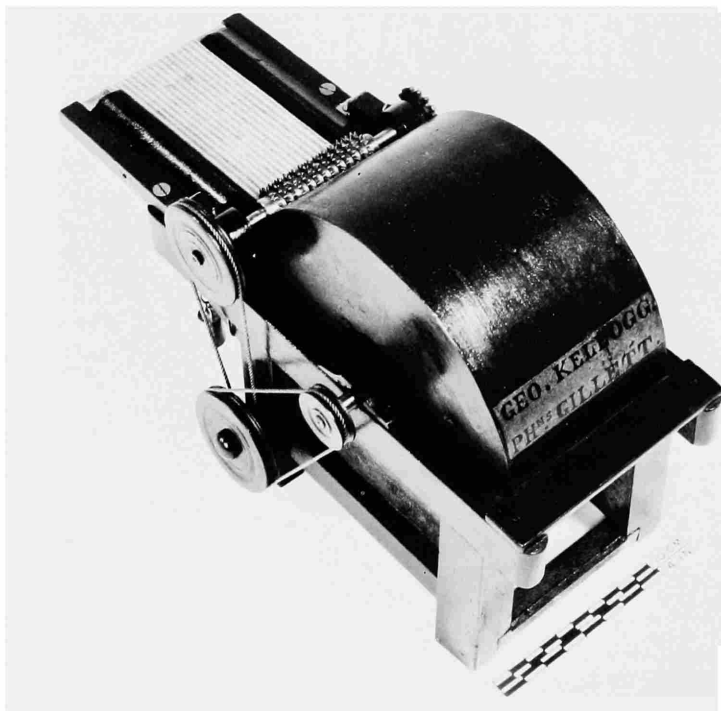


FIGURE 77.—Patent model 1575. (S.I. neg. 81-5255)

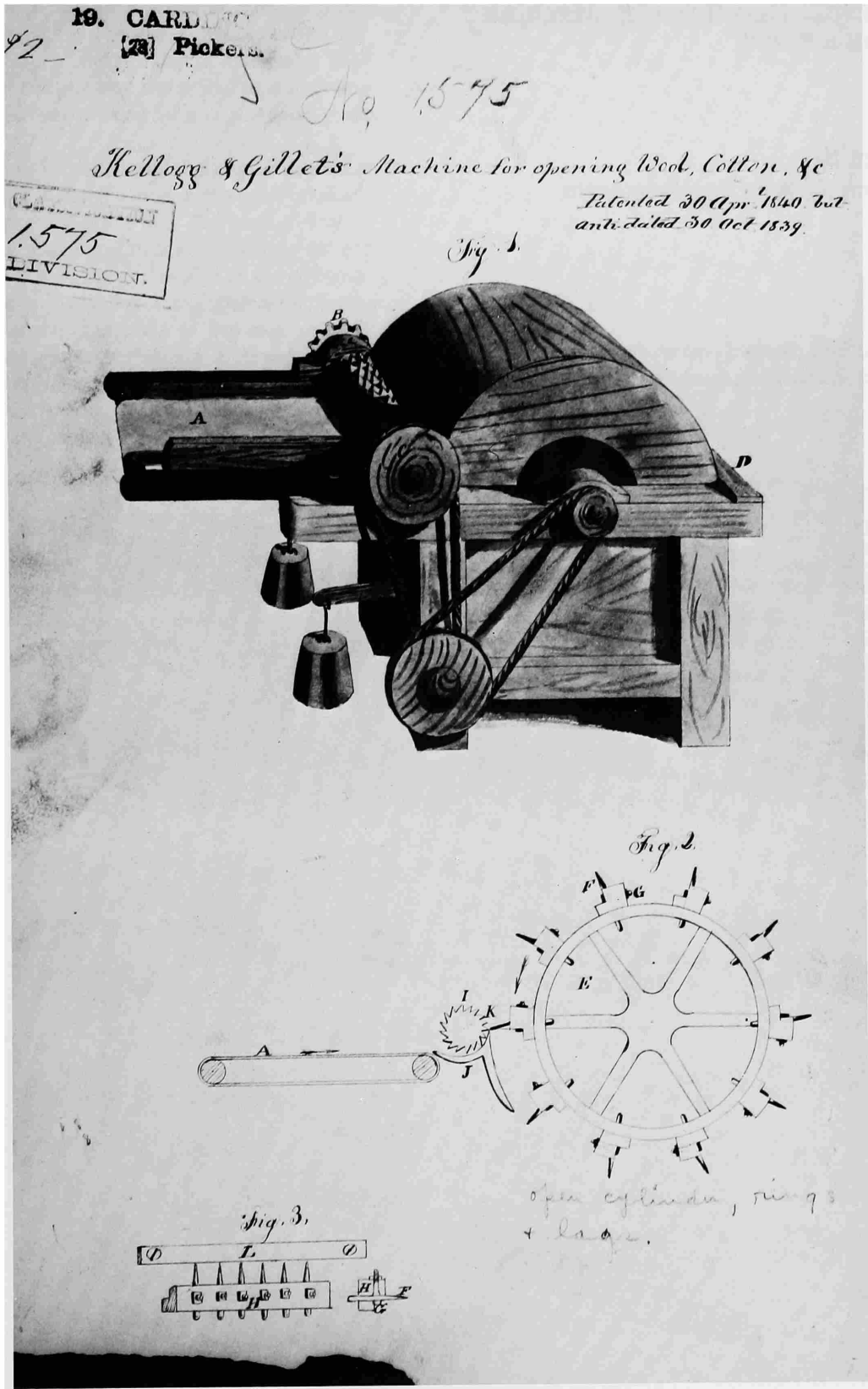


FIGURE 78.—Patent drawing 1575. (U.S. National Archives)

PATENT 1782: Rag Dressing Machine

Issued September 10, 1840

Emery Smith

North Sudbury, Middlesex Co., Massachusetts

Smith's machine prepared cotton waste prior to its being cut up and dusted and then processed into paper. Although the end

product is paper, this model is included because it is in Burke's list of patents from Class III (see Appendix A). The cotton

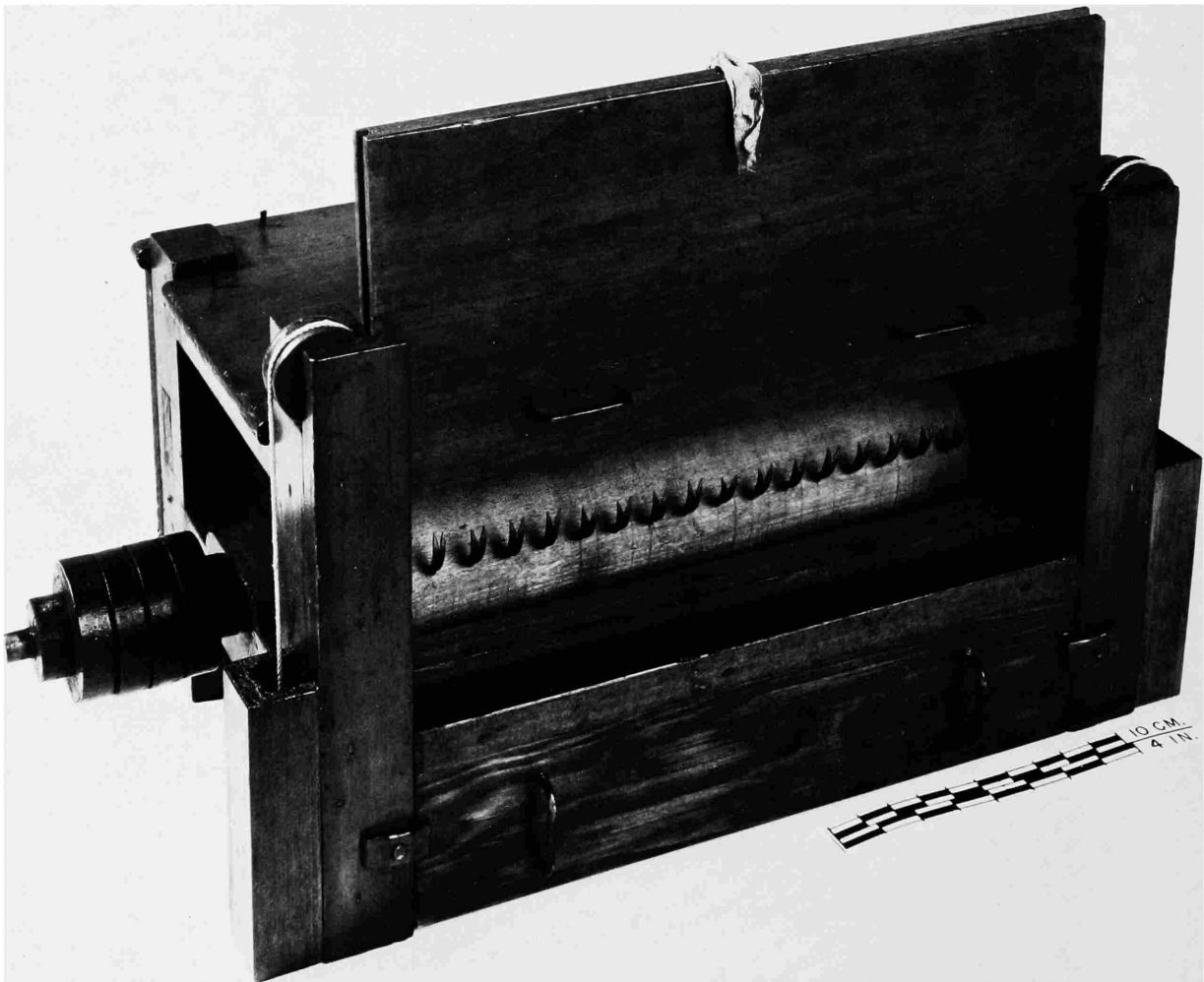


FIGURE 79.—Patent model 1782. (S.I. neg. 81-9857)

waste, usually thread obtained from factories, was generally twisted and knotted together and contained foreign matter that had to be removed before it could be further processed. This process was normally performed by hand. Smith claimed that his machine replaced 30 workers and thereby effected a great savings.

The patented action of the machine consisted of a cylinder with rows of forked teeth in combination with a row of pointed wires fixed to the inside wall of the box. The teeth and wires were so arranged that when the cylinder revolved they did not meet. The cotton was beaten by the turning of the cylinder, which caused the teeth to work the cotton against the wires, thus forcing the extraneous materials to separate and fall through a wire mesh to the bottom of the machine for subsequent removal. The cotton or rags were then considered "dressed" and ready for the next step in the papermaking process.

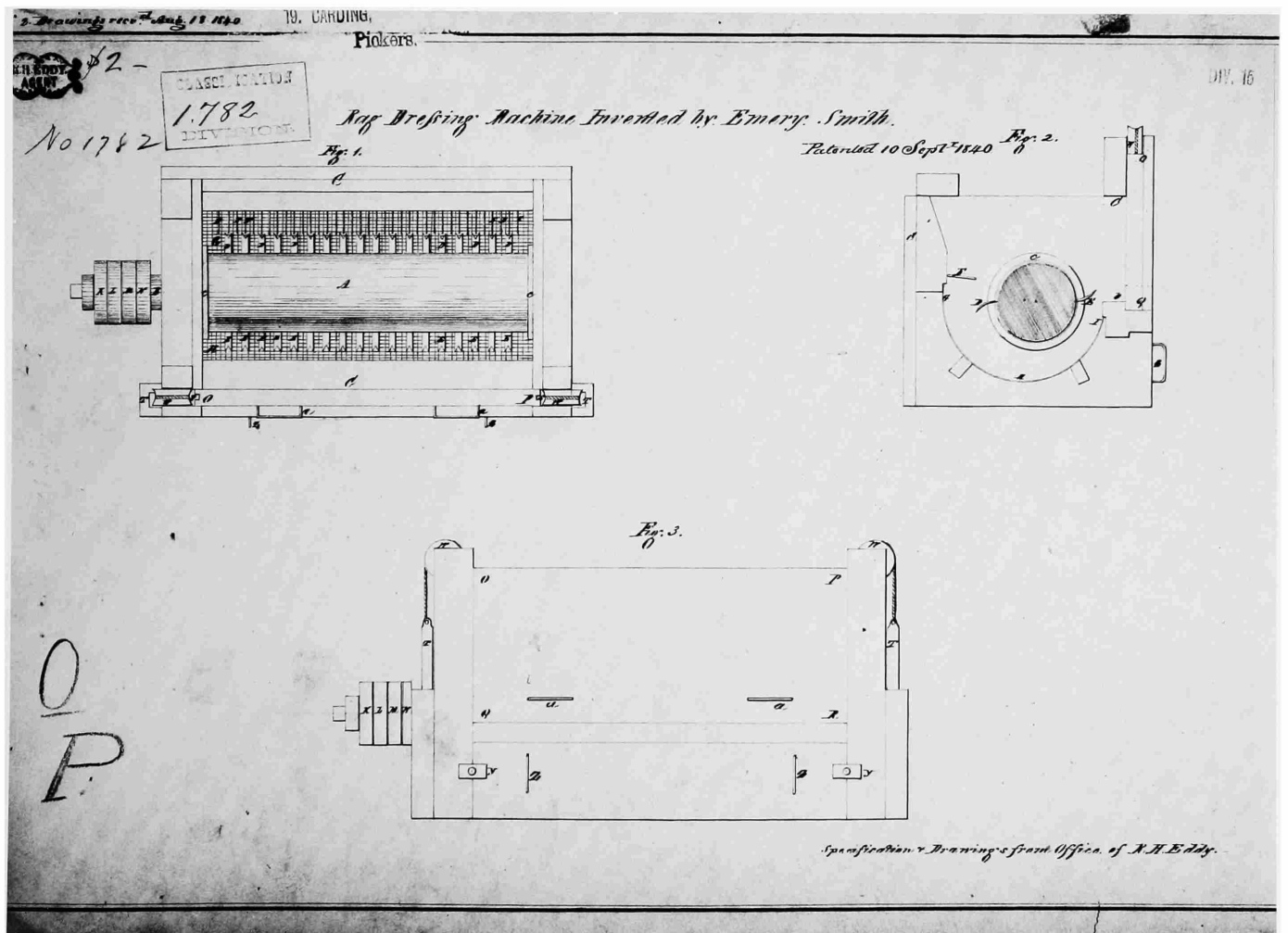


FIGURE 80.—Patent drawing 1782. (U.S. National Archives)

PATENT 1834: Knitting Machine

Issued October 22, 1840

Benjamin Hutchinson, Jr.

Springfield, Hampden Co., Massachusetts

Hutchinson's improvement was for knitting stockings with a closed seam. This he had accomplished by adding an endless chain of needles. The continuous chain is pictured in the patent drawing ("Fig. 3" of Figure 81) but is missing from the patent model. One of the knitting needles from the chain sits in front of the model (Figure 82).

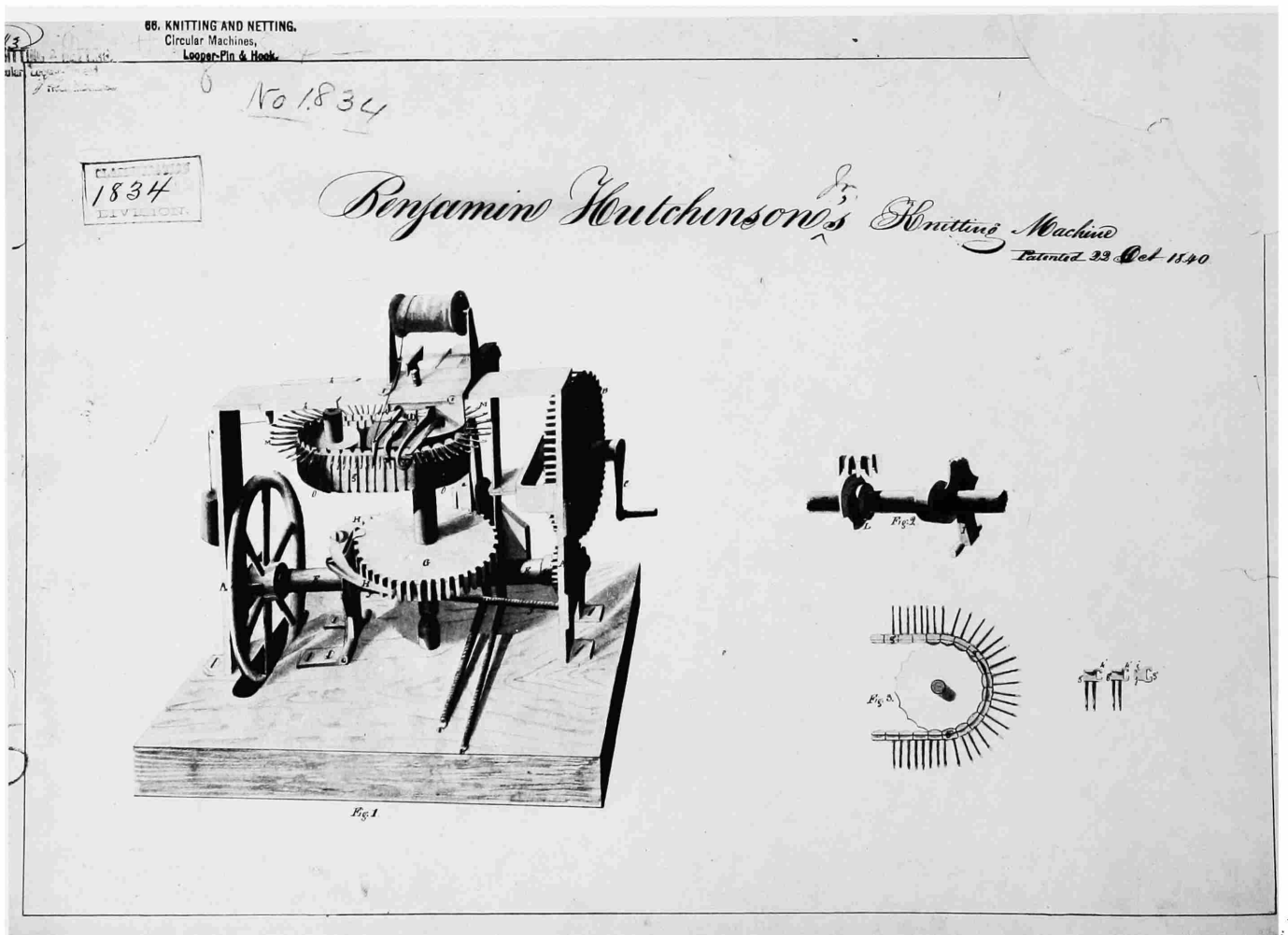


FIGURE 81.—Patent drawing 1834. (U.S. National Archives)

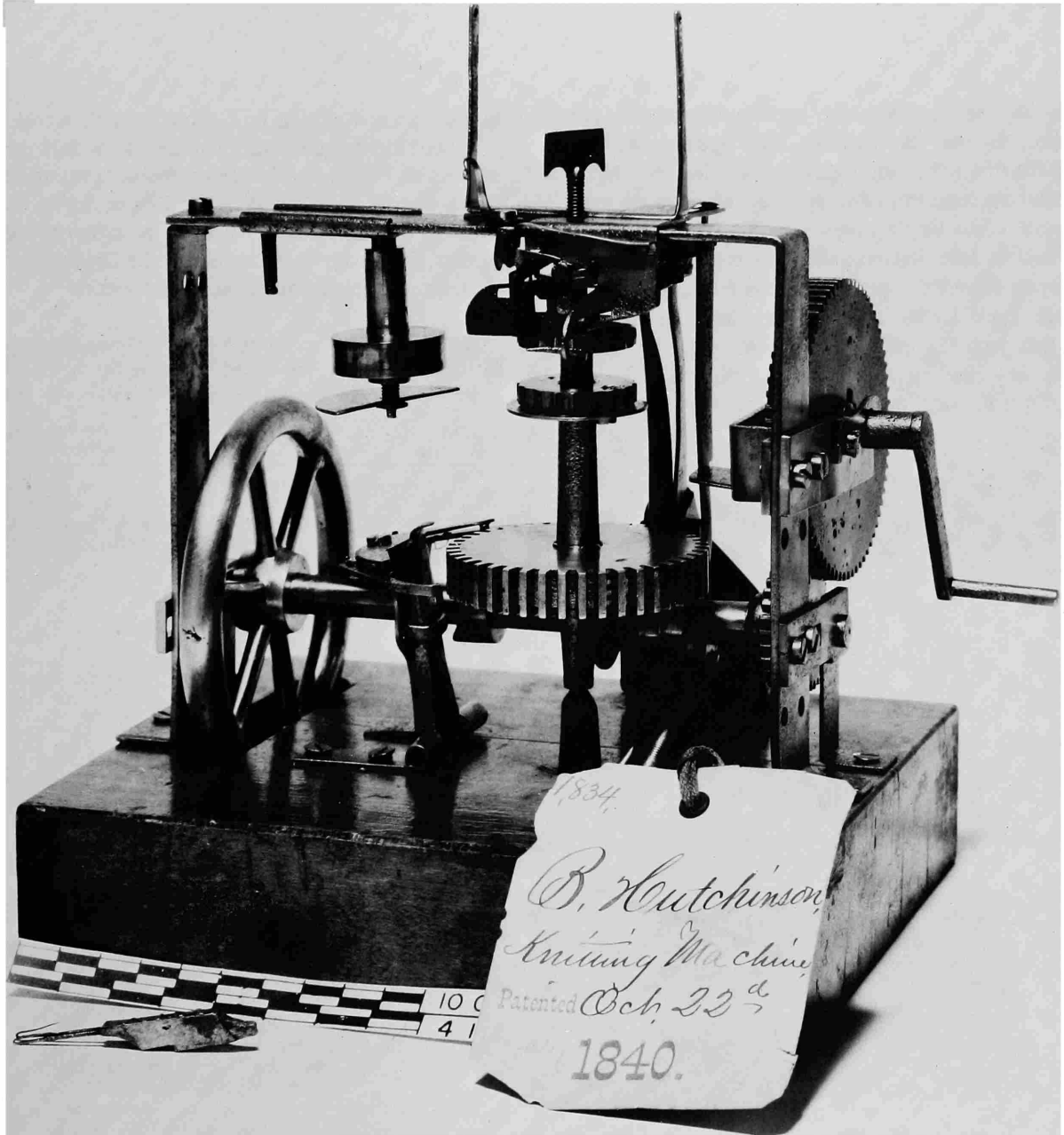


FIGURE 82.—Patent model 1834. (S.I. neg. 82-2566)

PATENT 1838: Rotary Loom Temple

Issued October 28, 1840

George Draper

Palmer, Hampden Co., Massachusetts

George Draper's temple further improved those of his father, Ira Draper, patented in 1816 and 1829 (patent 5419x). Ira patented the first self-acting rotary temple. George's improvement added a second row of teeth on the wheel of the temple. Previously, only a single row was utilized, which tended to leave a track of holes in the cloth as it was woven. The double row of teeth solved this problem of the fabric being marked in a single track. By having a double bearing on the selvage of the cloth, each row pulled on different threads and relieved the strain on a single warp yarn. It is evident from the patent drawings that the only difference between the two temples is

in the extra row of teeth on George's temple wheel.

From 1816 on, the rotary temple was widely accepted and successful. In fact, Ira's invention doubled the number of looms that a weaver could handle.¹ The Draper family continued to improve their temples and bought the rights to other temple patents. Eventually they developed the Draper Company into the largest temple manufacturer in the world.²

¹Waldemar Kaempffert, editor, *A Popular History of American Invention* (New York: Charles Scribner's Sons, 1924), page 241.

²*Dictionary of American Biography*, 5(1930):437.



FIGURE 83.—Patent model 1838, loom temples of which four are pictured. (S.I. neg. 81-5251)

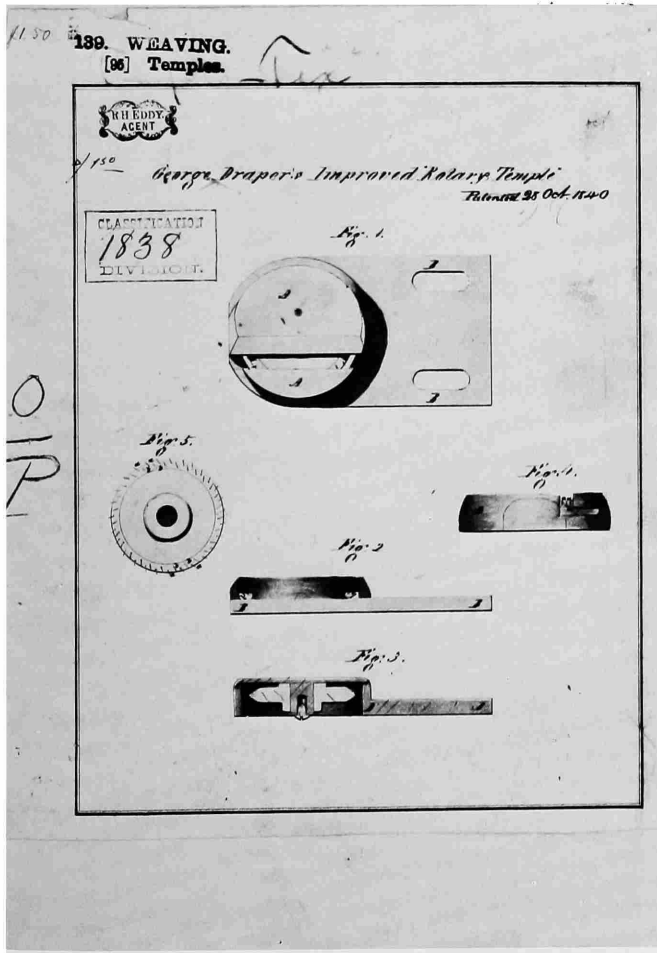


FIGURE 84.—Patent drawing 1838. (U.S. National Archives)

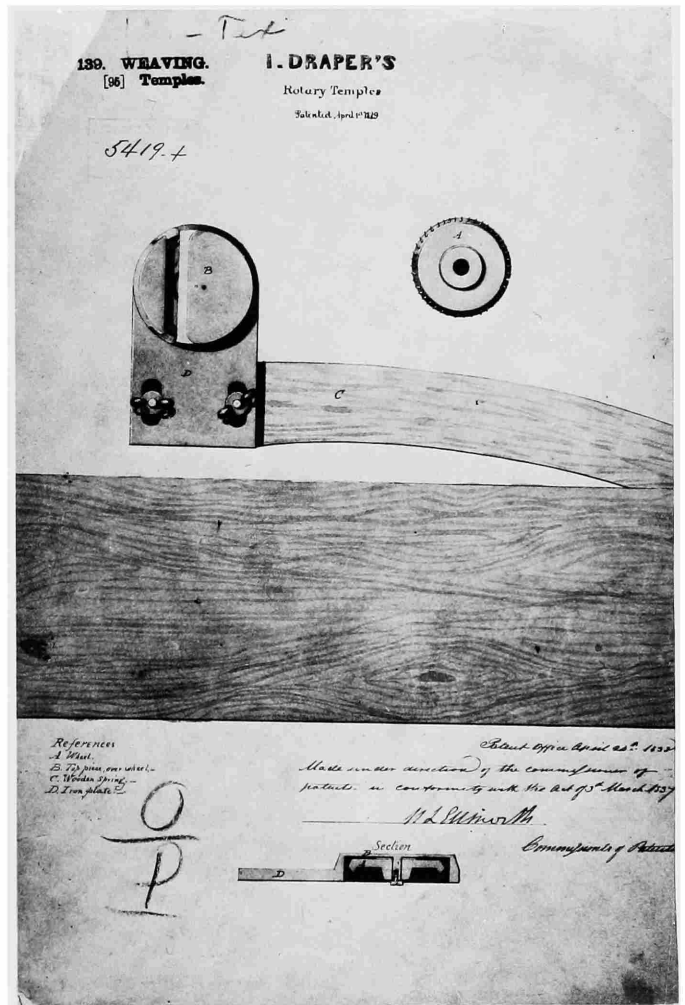


FIGURE 85.—Restored patent drawing 5419x. (U.S. National Archives)

PATENT 1902: Cloth-stretching Machine

Issued December 14, 1840

John Tillou

New Haven, New Haven Co., Connecticut

Tillou's machine was designed to remove mill wrinkles from cloth by stretching it in two directions. The cloth was stretched widthwise by transverse rubbers and was stretched lengthwise with rolling oblique cylinders. The rubbers are missing from the model, but are clearly seen in "Fig. 1(EE)" of the patent drawing (Figure 87).

In his patent specification, 1902, Tillou noted that this model is one-fourth of the size of the machine intended for stretching narrow cloth. The size of the machine would vary if used for stretching cassimere, satinnet, or broadcloth.¹

¹National Archives Record Group 241: Patent Application Files, patent 1902, page 2.

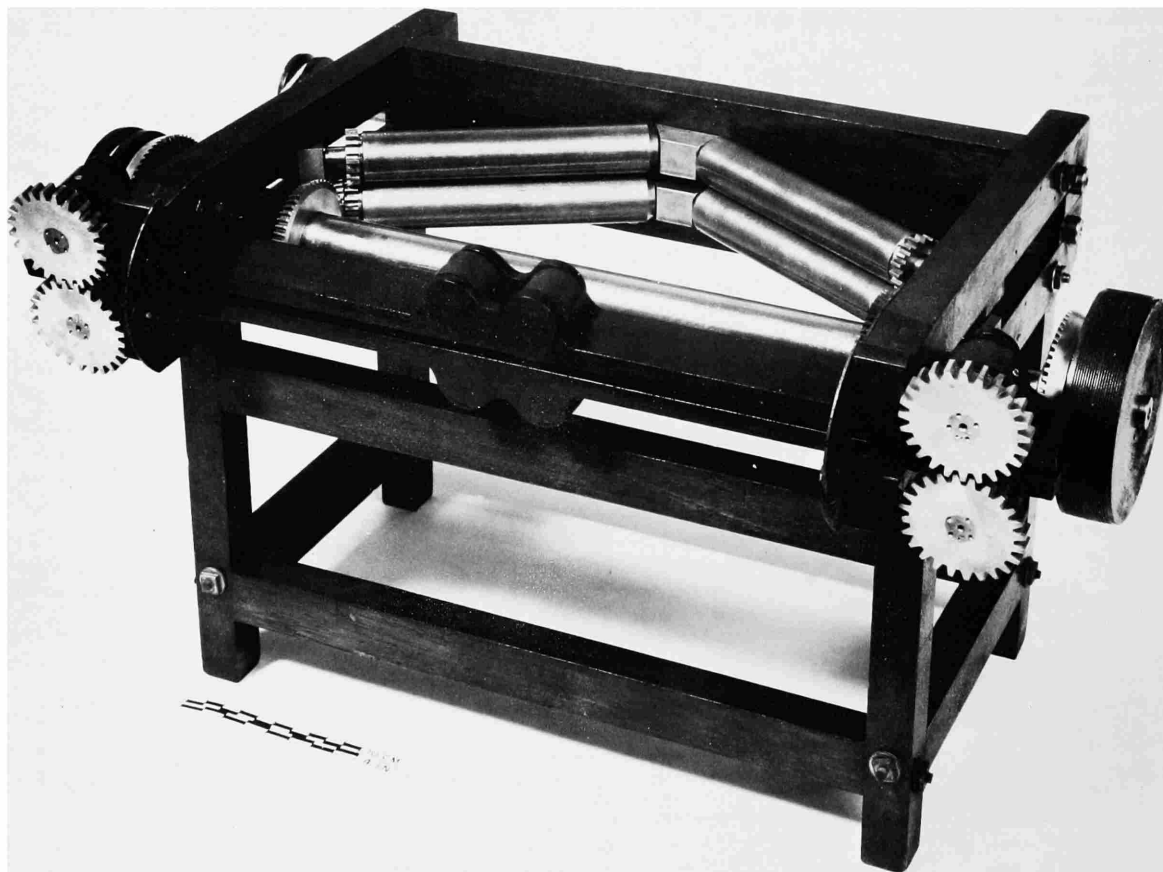


FIGURE 86.—Patent model 1902. (S.I. neg. 81-9861)

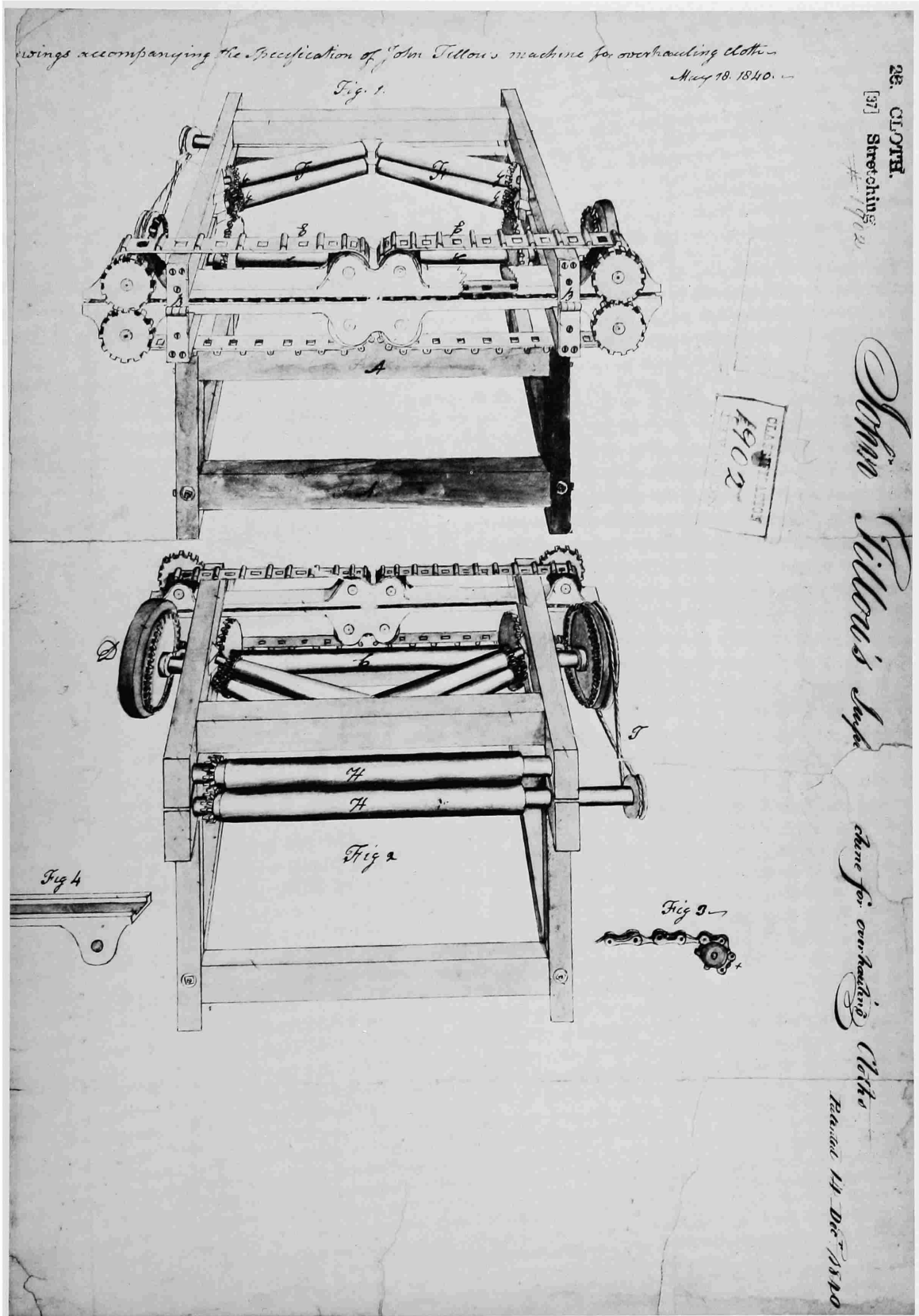


FIGURE 87.—Patent drawing 1902. (U.S. National Archives)

Appendix A

Complete List of Patents from Class III, 1790–1847

This appendix, “Manufacturers of fibrous and textile substances, including machines for preparing fibres of wool cotton, silk, fur, paper, &c.” is excerpted from Edmund Burke’s book, *List of Patents for Inventions and Designs, Issued by the United States, from 1790 to 1847*. Burke’s edition is useful because the patents are first organized by class and then alphabetically within the class by subject matter, unlike other listings which are organized chronologically or by the patentee’s name. In the case of the three-volume set *Subject-Matter Index of Patents for Inventions Issued by the United States Patent Office from 1790-1873, Inclusive*, the patents are listed alphabetically according to the subject of invention. The textile related patents are not grouped together

as a class, but as individual subjects, for instance, following the listing of looms are loops, lotteries and lounges, which makes it difficult to know the scope of the entire set. In addition, the terminology is inconsistent and does not allow for easily locating individual inventions or inventions of a similar nature.

The starred patents indicate the models illustrated in the catalog. Note that there are inconsistencies between this list and other patent documents with respect to the spelling of the inventor’s name, the title of the invention, and the inventor’s residence. In patents where an assignee is listed, the residence is that of the assignee.

LIST OF PATENTS.

CLASS III.—MANUFACTURES of Fibrous and Textile Substances, including Machines for preparing Fibres of Wool, Cotton, Silk, Fur, Paper, &c.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|--|----------------------------|----------------|
| Asclepias syriaca, manufacturing external fibres..... | Margaret Gerrish..... | Salem, Mass..... | Mar. 27, 1834 |
| Bags, for separating claine and stearine by pressure..... | Martin H. Shepard..... | Cincinnati, Ohio..... | May 26, 1843 |
| Blankets..... | Elkanah Cobb..... | Georgetown, D. C..... | April 29, 1812 |
| Blankets, and cloth..... | Jac. Getzendanner..... | Frederick co., Md..... | Sept. 30, 1814 |
| Bobbin, cotton spool..... | A. Barnes, S. Gray, & Jabez Clark..... | Windham, Ct..... | Feb. 3, 1813 |
| Bobbin, and flyer..... | Nathaniel Rider..... | Milbury, Mass..... | Dec. 31, 1833 |
| Bobbin, and flyer, Canton woollen | Charles Danforth..... | Ramapo, N. Y..... | Sept. 2, 1828 |
| Bobbin machine..... | William B. Taber..... | Canton, Mass..... | Jan. 30, 1829 |
| Bobbin tube..... | James A. Post..... | Warwick this p., N. Y..... | April 23, 1828 |
| Bobbin tube..... | Job Manchester..... | Warwick, R. I..... | Dec. 13, 1824 |
| Bonnets, &c., machinery for pressing..... | Benj. Hutchinson..... | Philadelphia, Pa..... | Oct. 18, 1827 |
| Bonnet, portable..... | Richard Murdoch..... | Baltimore, Md..... | Oct. 12, 1842 |
| Bonnet tips, pressing apparatus for | Thomas Hammond..... | New York..... | Oct. 20, 1844 |
| Braid, machinery for pressing braid | Thomas Kendall..... | New York..... | Sept. 3, 1844 |
| after it has been trimmed..... | Henry H. Robbins..... | Middleboro, Mass..... | April 10, 1841 |
| Braid, machinery for trimming | Henry H. Robbins..... | Middleboro, Mass..... | Feb. 18, 1841 |
| braiding machine..... | Dudley D. Sackett..... | Westfield, Mass..... | Jan. 22, 1840 |
| Braiding machine, braiding ma- | Daniel, Jesse, & Elisha Fitzgerald..... | New York..... | April 24, 1848 |
| nilla..... | John Thorp..... | Providence, R. I..... | Aug. 10, 1821 |
| Braiding..... | John Thorp..... | Providence, R. I..... | July 10, 1826 |
| Braid, Tassan, &c., weaving..... | Elisha Fitzgerald..... | New York..... | Oct. 16, 1844 |
| Brushes for cotton gins..... | Edwin Keith..... | Bridgewater, Mass..... | Sept. 19, 1845 |
| Burrs, cleaning from wool, & seed | Theodore Eli..... | New York..... | Sept. 14, 1843 |
| from cotton..... | Francis A. Calvert..... | Patterson, N. J..... | June 3, 1843 |
| Burrs, &c., picking and separating, | Thos. S. Washburn..... | Lowell, Mass..... | Oct. 11, 1845 |
| also applicable to ginning cotton* | Alanson Craue..... | Lowell, Mass..... | Oct. 11, 1845 |
| Burring machine..... | Godfrey Woone..... | London, Eng..... | April 2, 1838 |
| Burring machine..... | Bennet Woodcroft..... | Hardwick, Eng..... | April 5, 1838 |
| Calico, &c., printing..... | Alden Sibley..... | Fawtucket, Mass..... | July 5, 1838 |
| Calico, &c., printing..... | Leonard Beatty..... | Wilkesbarre, Pa..... | Dec. 28, 1810 |
| Caus, cotton..... | Horatio Moses..... | Patterson, N. J..... | Mar. 12, 1833 |
| Caus, cotton..... | William A. Crocker..... | Taunton, Mass..... | June 3, 1834 |
| Caus, shoe..... | James Dennis..... | Providence, R. I..... | Sept. 8, 1834 |
| Cap, substitute for fliers..... | Joseph Ripka..... | Mansyunk, Pa..... | July 31, 1833 |
| Cap spinner..... | Jacob Peters..... | Kensington, Pa..... | June 6, 1846 |
| Carding, composition, applied..... | Ziba Parkhurst..... | Grafton, Mass..... | Aug. 19, 1826 |
| Carding, cotton..... | Wm B. Leonard..... | Fishkill, N. Y..... | Sept. 16, 1833 |
| Carding, drawing and roping..... | William Tiffany and P. Allen..... | Osseo, N. Y..... | July 17, 1815 |
| Carding engine..... | John Boynton..... | South Coventry, Ct..... | July 12, 1843 |
| Carding engine, feeding or deliv- | J. & H. C. Gleason, & N. D. White, ass'es of H. Barbour..... | Lowell, Mass..... | May 19, 1843 |
| ing rollers of..... | | | |

* Reissued Dec. 27, 1842.

† Antedated Jan. 12, 1843.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|---|---|----------------|
| Carding engine, machinery for making laps for feeding..... | John Mason..... | Great Britain..... | Feb. 10, 1843 |
| Carding engine* | Charles Pooley..... | Chorlton upon Medlock, G. B..... | Aug. 22, 1846 |
| Carding, for gleaming savers..... | James Hugs..... | Greenbush, Pa..... | Sept. 15, 1815 |
| Carding hair of neat cattle..... | Arthur Kimball..... | New York..... | Nov. 4, 1813 |
| Carding hats, fur and wool..... | Arnold Buffum..... | Dedham, Mass..... | Mar. 31, 1806 |
| Carding hats, wool..... | Heman Palmer..... | Shoreham, Vt..... | May 25, 1811 |
| Carding machine..... | John Jearup..... | Orange co., N. Y..... | Feb. 6, 1813 |
| Carding machine..... | Joshua Woodward..... | Portage, Ohio..... | May 9, 1821 |
| Carding machine..... | Nathaniel Rider..... | Sturbridge, Mass..... | Mar. 12, 1825 |
| Carding machine..... | Elijah Thompson..... | Lowell, Mass..... | June 9, 1826 |
| Carding machine..... | James H. Arnold..... | Bellefont, Ohio..... | Sept. 25, 1826 |
| Carding machine..... | John Tillou..... | Newton, Ct..... | Sept. 8, 1827 |
| Carding machine..... | H. M. Bacon..... | Columbia co., N. Y..... | April 10, 1828 |
| Carding machine..... | D. M. Bacon..... | Huntington, Pa..... | April 11, 1829 |
| Carding machine..... | John Boynton..... | South Coventry, Ct..... | April 11, 1829 |
| Carding machine..... | J. W. Shankland..... | Summerfield, Ohio..... | May 5, 1829 |
| Carding machine..... | Uriel G. Warner..... | Ripley, Ohio..... | Oct. 1, 1830 |
| Carding machine..... | P. L. King and E. B. Blaisell..... | Sparta & Lawrenceburg township, Ia..... | Oct. 14, 1830 |
| Carding machine..... | Robert Bartlett..... | Ripley, Ohio..... | Oct. 25, 1832 |
| Carding machine..... | Luther Colburn..... | Fairfield, Vt..... | Nov. 20, 1832 |
| Carding machine, packing sheets of leather on cylinders..... | Joshua Lamb..... | Leicester, Mass..... | Aug. 21, 1819 |
| Carding machine..... | M. W. Obenshain..... | Springfield, Ohio..... | July 20, 1846 |
| Carding machine..... | Charles Bishop..... | Newtown, Ct..... | Sept. 26, 1846 |
| Carding machine..... | Hugh Waiteman..... | Pittsburg, Pa..... | Feb. 12, 1845 |
| Carding machine, self-stripping card for carding fibrous substances..... | Gleason..... | Lowell, Mass..... | Dec. 4, 1844 |
| Carding machine, wool..... | Nathan Freeman..... | Lowell, Mass..... | Dec. 31, 1839 |
| Carding machine, wool, cotton, & Ebenezer Crane and Alanson Craue..... | Joseph Munroe..... | Lowell, Mass..... | Jan. 30, 1841 |
| Carding machine, wool, cotton, & for..... | Levi L. Gowdy..... | Palmer, Mass..... | Oct. 11, 1841 |
| Carding rolls, cotton, forming..... | C. Whiting, S. Lowder, & S. Lowder, Jr..... | Montgomery, N. Y..... | June 25, 1824 |
| Carding, rolls, preserver..... | T. Norton and G. Bid- | Dedham, Mass..... | Nov. 1, 1836 |
| Carding, spinning, and roping..... | dis..... | Middletown, Ct..... | Nov. 1, 1836 |
| Carding and spinning wool..... | Anson Holmes..... | Milford, Pa..... | April 15, 1813 |
| Carding and spinning wool..... | Philo C. Curtis..... | Pomfret, N. Y..... | Jan. 8, 1810 |
| Carding and spinning machines..... | Moses Chase..... | Paris, N. Y..... | Oct. 15, 1833 |
| Carding wool..... | John Boynton..... | Baltimore, Md..... | Mar. 23, 1842 |
| Carding wool..... | Calvin Wing..... | South Coventry, Ct..... | Mar. 11, 1833 |
| Carding wool..... | David Adams..... | Gardiner, Me..... | Oct. 21, 1830 |
| Cards, boards..... | Homer Whitmore..... | Richmond, Va..... | July 29, 1833 |
| Cards, boards, smoothing..... | Daniel Stearns..... | Newton, N. Y..... | April 27, 1832 |
| Cards, and can hoops, bending..... | John Bostworth..... | Braintreeborough, Vt..... | Mar. 10, 1814 |
| Cards, cotton..... | William Barker..... | Philadelphia co., Pa..... | July 20, 1831 |
| Cards, cotton and wool, composition for preparing..... | Edward Faber..... | Smithfield, R. I..... | Aug. 12, 1815 |
| Cards, cut, prick, and set..... | John M. Gates..... | Pittsburg, Pa..... | Jan. 24, 1832 |
| Cards, cylinders..... | Reuben Merriam..... | Warren, Mass..... | Sept. 14, 1815 |
| Cards, grinding and facing..... | Joshua Lamb..... | Leicester, Mass..... | May 2, 1831 |
| Cards, grinding and straining..... | Gideon Drake..... | Leicester, Mass..... | Aug. 21, 1819 |
| Cards, wool..... | John Boynton..... | Windsor, Ct..... | Feb. 28, 1817 |
| Cards, wool..... | Amos Whitmore..... | Windham, Ct..... | Mar. 30, 1811 |
| Carding wool..... | George Faber..... | Massachusetts..... | June 5, 1797 |
| Carding wool..... | Benjamin Standing..... | Canton, Ohio..... | Aug. 1, 1838 |
| Carding wool..... | Daniel Smith..... | New Hampshire..... | June 28, 1803 |

* Date of English patent, Nov. 17, 1845. † Antedated Jan. 20, 1846. ‡ Renewed by Cong., Mar. 3, 1869.

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MANUFACTURES.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|---|----------------------|----------------|
| Carding wool. | George Booth. | Poughkeepsie, N. Y. | Oct. 13, 1812 |
| Carding wool. | Lewis French. | New Haven, Ct. | May 18, 1814 |
| Carding wool. | E. Hale, Jr., S. Hale, and James Hale. | Haverhill, Mass. | Feb. 16, 1825 |
| Carpet, canvas, design for. | J. D. Edwards. | Elizabethtown, N. J. | Mar. 20, 1844 |
| Carpet, design for. | John P. Ferguson. | Thompsonville, Ct. | Oct. 20, 1843 |
| Carpets, painted, design for. | James Albro, Jr. | Elizabethtown, N. J. | Oct. 6, 1843 |
| Carpets, design for. | Henry G. Thompson. | New York. | April 4, 1844 |
| Carpet, felt. | Aaron Byington. | Herkimer, N. Y. | May 6, 1829 |
| Carpet, ingrain. | John and N. Haight. | New York. | Aug. 12, 1820 |
| Carpet, ingrain, taking figures of. | William A. Prince. | New York. | Feb. 12, 1823 |
| Carpet, paper. | William Sherwood. | Summersworth, N. H. | April 20, 1830 |
| Carpet, woolen. | Francis Gay. | Baltimore, Md. | Feb. 23, 1819 |
| Carpet, woolen. | William Harrington. | Harrison, N. Y. | Mar. 3, 1829 |
| Carpet, woolen. | William Harrington. | Harrison, N. Y. | June 11, 1820 |
| * Carpeting and rugs. | John Hazbrouck. | New York city. | Dec. 10, 1838 |
| Carpets, weaving. | William Sherwood. | Rutland, Ct. | July 20, 1846 |
| Cloth, brushing and winding. | Reuben C. Varnel. | West Somers, N. Y. | Mar. 13, 1844 |
| Cloth, dressing, finishing. | Zachariah Allen. | Providence, R. I. | Feb. 23, 1830 |
| Cloth, dressing, sizing. | A. Robeson. | New Bedford, Mass. | Sept. 8, 1828 |
| Cloth, dressing, wool and cotton | Paul Moody. | Waltham, Mass. | Jan. 17, 1818 |
| Cloth, dressing. | Calvin W. Cook. | Lowell, Mass. | April 23, 1831 |
| Cloth, dressing. | Isaac Stanford. | Connecticut. | Mar. 27, 1799 |
| Cloth, dressing. | Seth Hart. | Hempstead, N. Y. | July 27, 1812 |
| Cloth, dressing. | Calvin W. Cook. | Lowell, Mass. | July 20, 1853 |
| Cloth, dressing, calendering. | Stephen R. Parkhurst. | Mendon, Mass. | Dec. 23, 1853 |
| Cloth, drying. | Zenas Bliss. | Johnston, R. I. | Oct. 17, 1835 |
| Cloth, drying, by steam rollers. | Joseph Ford. | Boston, Mass. | Jan. 23, 1850 |
| Cloth, feling apparatus. | Duncan Wright. | Medway, Mass. | Aug. 31, 1845 |
| Cloth, finishing. | John Andrews. | Bellville, N. J. | Jan. 31, 1846 |
| Cloth, folding and measuring. | J. C. Carlisle. | Armagh, Pa. | Oct. 21, 1846 |
| Cloth, folding and measuring, ma- chinery for. | Joel Spalding. | Morrisstown, Vt. | Aug. 28, 1841 |
| Cloth, forming the web without spinning or weaving. | Silas C. Durgin. | N. Chelmsford, Mass. | Mar. 9, 1844 |
| Cloth, mangle. | John Arnold. | Norwalk, Conn. | July 15, 1829 |
| Cloth, manufacturing. | Thomas Rundle. | Boston, Mass. | Nov. 11, 1830 |
| Cloth, manufacturing. | I. P. & R. G. Hazard. | Providence, R. I. | Dec. 6, 1828 |
| Cloth, manufacturing. | Henry Raymond. | New York. | June 27, 1829 |
| Cloth, manufacturing. | N. Peck & D. Taylor. | Fairfield, Conn. | June 27, 1829 |
| Cloth, manufacturing, of flax and wire. | Freeman Wolcott. | Stow, Mass. | July 21, 1835 |
| Cloth, machine for measuring on the loom. | Peter Laporte. | Augusta county, Va. | July 12, 1830 |
| Cloth, napping and making water- proof. | F. W. Howe. | N. Chelmsford, Mass. | June 6, 1846 |
| Cloth, ornamenting. | William K. Phipps. | Framingham, Mass. | Aug. 31, 1829 |
| Cloths, printing, floor, design for. | James C. Wood. | Philadelphia, Pa. | Dec. 14, 1821 |
| Cloths, printing, floor, design for. | J. Albro, Jr. | Elizabethtown, N. J. | Dec. 20, 1843 |
| Cloths, printing, floor, design for. | J. Albro, Jr. | Elizabethtown, N. J. | Dec. 20, 1843 |
| Cloth, &c., reducing worn out. | J. Albro, Jr. | Elizabethtown, N. J. | Dec. 20, 1844 |
| Cloth, scouring. | Reuben Daniels. | Woodstock, Vt. | Oct. 10, 1840 |
| Cloth of all kinds, sewing, with a running stitch. | Thomas L. Jennings. | New York. | Mar. 3, 1821 |
| Cloth, stretching, in the process of fuling. | Benjamin W. Bean. | New York, N. Y. | Mar. 4, 1843 |
| * Cloth, taking wrinkles out of, while fuling. | Baxter D. Whitney & Geo. W. Lawton. | Winchendon, Mass. | Mar. 25, 1840 |
| Cloth of various kinds, manufacg | John Tillou. | New Haven, Conn. | Dec. 14, 1840 |
| Cloth, washing, in calico printing. | Reuben Daniels. | Woodstock, Vt. | Oct. 8, 1840 |
| Cloth, winding up. | Geo. J. Prentiss. | Tiverton, R. I. | April 4, 1846 |
| Coach lace, loom, Bigelow's power† | J. Goulding and R. Brackett. | Boston, Mass. | Nov. 30, 1835 |
| | E. B. Bigelow. | Boston, Mass. | April 20, 1837 |

* Reissued Jan. 23, 1834. † Antedated, Oct. 4, 1845.

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MANUFACTURES.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|---|-----------------------|----------------|
| Coconeries, lodgments in, &c. — Coconeries, removing the filth from hurdles. | Sol. M. Jenkins, M. D. | Easton, Md. | Sept. 28, 1839 |
| Cordage. | Benjamin Benson. | Smyrna, Del. | Jan. 10, 1840 |
| Cordage. | George Parkison. | Pennsylvania. | June 16, 1794 |
| Cordage. | John Pittman. | Rhode Island. | May 25, 1795 |
| Cordage. | R. Fulton & N. Cutting. | New York. | Mar. 4, 1808 |
| Cordage. | Charles L. H. Hill. | Walpole, N. H. | June 30, 1812 |
| Cordage. | Charles L. Sargeant. | Suffolk, Mass. | Oct. 4, 1817 |
| Cordage. | St. & James A. Bazen. | Canton, Mass. | Oct. 17, 1817 |
| Cordage. | William B. Leonard. | Fishkill, N. Y. | Jan. 9, 1819 |
| Cordage. | Robert Colbert. | Boston, Mass. | Mar. 17, 1819 |
| Cordage. | Robert Graves. | Boston, Mass. | April 10, 1819 |
| Cordage. | Robert Graves. | Boston, Mass. | Nov. 22, 1820 |
| Cordage. | Robert Graves. | Boston, Mass. | Feb. 1, 1821 |
| Cordage. | Franklin Kelsey. | Boston, Mass. | Feb. 8, 1825 |
| Cordage. | Erastus Bartholomew. | Middletown, Conn. | Feb. 17, 1826 |
| Cordage. | Robert Graves. | Boston, Mass. | May 17, 1827 |
| Cordage. | Brooklyn, N. Y. | Brooklyn, N. Y. | July 25, 1827 |
| Cordage. | John Drummond. | Brooklyn, N. Y. | July 22, 1833 |
| Cordage, clothes line, straining and preserving. | E. Allyn and C. B. Hil- dret. | Boston, Mass. | Nov. 26, 1840 |
| Cordage, laying and spinning ropes for cables. | William Shultz. | Baltimore, Md. | June 24, 1809 |
| Cordage, laying and twisting seine twine. | Joseph Clarkson. | Baltimore, Md. | Aug. 16, 1826 |
| Cordage, long, manufacturing. | William E. Magninus. | Philadelphia, Pa. | Nov. 9, 1839 |
| * Cordage, manufacturing. | Alfred Hathaway. | Boston, Mass. | July 9, 1839 |
| Cordage, pressing tar out of. | Thomas Barnitt. | Philadelphia, Pa. | May 20, 1822 |
| Cordage, rope. | Edward S. Townsend and Philip Durfee. | Palmrya, N. Y. | Jan. 6, 1831 |
| Cordage, rope. | William Stone, jr. | Williamson co. Tenn | Sept. 8, 1831 |
| Cordage, rope. | David Treatwell. | Boston, Mass. | Feb. 5, 1834 |
| Cordage, rope, forming & laying. | William Panning. | New York. | Feb. 3, 1836 |
| Cordage, rope, layer. | George Bradley. | Fishkill, N. Y. | Dec. 16, 1833 |
| Cordage, rope, making. | David Myerle. | Philadelphia, Pa. | Mar. 3, 1827 |
| Cordage, rope, making. | Michael Wigglesworth. | Massachusetts. | Oct. 10, 1835 |
| Cordage, rope, making. | John Goulding. | Massachusetts. | June 26, 1799 |
| Cordage, rope, making. | John Sellers & A. Bartle. | Alexandria, D. C. | May 5, 1807 |
| Cordage, rope, making. | Eleanor Crain. | Springfield, Vt. | Jan. 10, 1820 |
| Cordage, rope, making. | Stephen Hills, 2d. | Glastenbury, Conn. | June 11, 1829 |
| Cordage, rope, making. | J. Whiteman. | Philadelphia, Pa. | Jan. 15, 1836 |
| Cordage, rope, preserving — See Composition, Class 4. | Robert Graves. | Boston, Mass. | Dec. 31, 1819 |
| Cordage, rope, reading. | A. Boring and William W. Jones. | Thornville, Ohio. | May 5, 1828 |
| Cordage, rope, serving. | James Fates. | New Bedford, Mass. | Aug. 20, 1835 |
| Cordage, rope, serving. | Adam Montgomery. | New York. | Mar. 18, 1836 |
| Cordage, rope, serving. | Charles Parke. | New York. | April 13, 1836 |
| Cordage, rope and twine. | Stephen Gorham. | Massachusetts. | Feb. 4, 1800 |
| Cordage, rope and twine. | John Heaven. | Montgomery c. h., Va. | Aug. 13, 1813 |
| Cordage, rope and twine. | Sam'l F. Dexter and Sam'l Graves. | Auburn, N. Y. | Aug. 24, 1830 |
| Cordage, rope, twisting strand. | Moses Day. | Roxbury, Mass. | Feb. 7, 1838 |
| Cordage, rope yarn, putting up. | John Pittman. | Medford, Mass. | Mar. 14, 1817 |
| Cordage, rope yarn, spinning. | James H. Echols. | Lynchburg, Va. | Oct. 20, 1836 |
| Cordage, rope yarn, spinning. | John Pittman. | Rhode Island. | Dec. 24, 1799 |
| Cordage, rope yarn, spinning. | Nathaniel Cutting. | Washington, N. Y. | Dec. 14, 1806 |
| Cordage, rope yarn, spinning and winding. | Sidney B. Whitlock. | New York. | Aug. 22, 1834 |
| Cordage, rope yarn, spinning and winding. | Christian Berg & Peter Schiemertorn, jr. | New York. | July 2, 1811 |
| Cordage, rope yarn, tarring. | Daniel Treatwell. | Boston, Mass. | Aug. 16, 1834 |
| Cordage, small, and seine twine. | Petersburg manufactg company, assignees of Alston Pond. | Petersburg, Va. | May 20, 1860 |

MANUFACTURES.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---|----------------|
| Felt cloths and hat bodies, shrinking | Henry A. Wells | New York | Sept. 11, 1841 |
| Felt cloths, planking | Henry A. Wells | New York | Sept. 16, 1841 |
| Felt cloths, without spinning and weaving, machinery for. | Thomas R. Williamson | Citizen U. States, now in London, England | Dec. 14, 1840 |
| Figures to be stamped or printed on fabrics, design for* | Sparkman and Kelsey | New York, N. Y. | April 25, 1846 |
| Fiannels, wetting | Joseph W. Hale | Haverhill, Mass. | July 2, 1841 |
| Flax, breaking | John Cannon | Delaware | Jan. 17, 1801 |
| Flax, breaking | Samuel Davison | Romulus, N. Y. | May 17, 1822 |
| Flax, breaking | Paterson Reading | Trenton, N. J. | Jan. 3, 1825 |
| Flax, breaking and dressing | Samuel Mulliken | Philadelphia, Pa. | Mar. 11, 1791 |
| Flax, breaking and dressing, and thrashing, and grinding | Joseph Briggs | Schoharie, N. Y. | Oct. 5, 1825 |
| Flax dresser | Francis Burdick | Kortwright, N. Y. | Feb. 28, 1825 |
| Flax dressing | William Wheeler | Warren, N. Y. | Mar. 26, 1825 |
| Flax dressing | Elisha Mark | Granville, Mass. | Mar. 21, 1806 |
| Flax dressing | Jonathan Barlow | Canaan, N. Y. | Aug. 23, 1809 |
| Flax dressing | Oliver Wilde | Grahan, N. Y. | April 16, 1810 |
| Flax dressing | John Hayes | Hudson, N. Y. | June 19, 1812 |
| Flax dressing | Joseph Hines and William Bain | New York | Aug. 12, 1826 |
| Flax dressing | Henry Schoonhoven | Pulney, N. Y. | Dec. 11, 1827 |
| Flax and hemp, bleaching—See Class 4. | | | |
| Flax and hemp, breaking | Ferdinando Stith | Franklin, Tenn. | April 22, 1835 |
| Flax and hemp, breaking | John Warren | Westbrook, Maine | June 14, 1837 |
| Flax and hemp, breaking | Harvey Lull | Ithaca, N. Y. | June 18, 1837 |
| Flax and hemp, breaking | Andrew Forsyth | Columbia, Tenn. | Jan. 9, 1838 |
| Flax and Hemp, breaking | Alvin Keyes | Crittenden, Ky. | April 4, 1838 |
| Flax and hemp, breaking and cleaning | Arnold Zellnor | Pulaski, Tenn. | July 26, 1833 |
| Flax and hemp, breaking and cleaning | David M. Longley and Samuel Davis | Westbrook, Maine | Sept. 21, 1837 |
| Flax and hemp, breaking and dressing | Lafayette Tibbitts | New Glasgow, Va. | Oct. 22, 1831 |
| Flax and hemp, breaking and dressing | Ebenezer C. Chase | Jay, Maine | Jan. 6, 1832 |
| Flax and hemp, breaking and dressing | Arnold Zellnor | Giles county, Tenn. | Oct. 25, 1832 |
| Flax and hemp, breaking and dressing | Chapman Warner, A. T. Mixell, and Edwin J. Horn | Belvidere, N. J. | July 31, 1837 |
| Flax and hemp, breaking, and shelling corn | Reynolds Gillman | New York | Nov. 5, 1824 |
| Flax and hemp, breaking and thrashing | Noah G. Hayden | Harrodsburg, Ky. | April 12, 1833 |
| Flax and hemp, cleaning and breaking | Robert Miller | Glasgow, Ky. | May 23, 1834 |
| Flax and hemp, cleaning machine | Hezekiah Hawley | Louisville, Ky. | June 29, 1833 |
| Flax and hemp, combing | Jos. and James Westerman | New York | Aug. 14, 1833 |
| Flax and hemp, dresser | E. H. Nichols and Thaddeus Fairbanks | St. Johnsbury, Vt. | Oct. 1, 1830 |
| Flax and hemp, dressing | Platt Wakelee | Augusta, N. Y. | April 16, 1824 |
| Flax and hemp, dressing | Abel Smith and James Olney | Westmoreland, N. Y. | July 10, 1830 |
| Flax and hemp, dressing | Hezekiah Hawley | Louisville, Ky. | June 4, 1833 |
| Flax and hemp, dressing, wheel for | Wm. and R. Brittain | Armwell, N. J. | Oct. 12, 1837 |
| Flax and hemp, dressing, hatching | C. and W. A. Benton | Armenia, N. Y. | May 22, 1816 |
| Flax and hemp, dressing, hatching | Daniel Treadwell | Boston, Mass. | Aug. 18, 1834 |
| Flax and hemp, dressing, hatching | Foster Demasters | Shelbyville, Ky. | Nov. 20, 1838 |
| Flax and hemp, and manilla grass, combing | S. Couillard, jr. | Boston, Mass. | Oct. 19, 1836 |
| Flax and hemp machine | Samuel Mulliken | Philadelphia, Pa. | Jan. 15, 1795 |

* Antedated Mar. 23, 1846.

MANUFACTURES.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|-----------------------------|--|---|----------------|
| Cordage, silk weed for | George Smith | New York | May 28, 1813 |
| Cordage, top sled for | Robert Graves | Boston, Mass. | Mar. 28, 1821 |
| Cordage, tow line, &c. | Aaron Ball | Caroline, N. Y. | Dec. 29, 1831 |
| Cordage, twine, and cord | Jacob Stout | Stonington, N. Y. | Nov. 9, 1839 |
| Cotton bats or laps, making | John C. Smith & Geo. C. Kellogg | New Hartford, Ct. | Feb. 20, 1843 |
| Cotton, cleaning | Bornet Segume | New York, N. Y. | July 3, 1843 |
| Cotton, cleaning ungnimed | Robert M. Livingston | Mobile, Alabama | July 20, 1843 |
| Cotton, cleaning | G. F. Sclatonsall | North Carolina | Sept. 2, 1801 |
| Cotton, cleaning | G. F. Sclatonsall | North Carolina | May 14, 1803 |
| Cotton, cleaning | James Simonds & Jas. McJames | Charleston, S. C. | May 17, 1804 |
| Cotton, cleaning | George T. Sadler | Lawrence co. Ala. | Mar. 10, 1823 |
| Cotton, cleaning | Jesse Reed | Marshfield, Mass. | Feb. 3, 1826 |
| Cotton, cleaning | Amos Gilliam | Reedy Fork, S. C. | Oct. 10, 1839 |
| Cotton, cleaning | Jesse Reed | Marshfield, Mass. | Aug. 10, 1827 |
| Cotton, cleaning | Lewis Yates | New Orleans, La. | Oct. 20, 1818 |
| Cotton, cleaning | John T. Sharrack | Winchester, Va. | June 20, 1823 |
| Cotton, cleaning | Elisha Congdon | Norwich, Conn. | Mar. 12, 1824 |
| Cotton, cleaning | Jesse Whitehead | Manchester, Va. | June 24, 1839 |
| Cotton, cleaning | John Tatham & David Cheatham | Rockdale, England | Nov. 18, 1845 |
| Cotton, cleaning | Jacob Idler | Philadelphia, Pa. | Dec. 31, 1838 |
| Cotton, cleaning | Waring, Peterson and Johnson, adm's of A. S. Wolcott, deceased | New York, N. Y. | Aug. 8, 1846 |
| Cotton, cleaning | James Beaumont | Kendall, Mass. | Dec. 3, 1814 |
| Cotton, cleaning | John Park & William S. Peck | Westmoreland, N. Y. | July 10, 1833 |
| Cotton, cleaning | Stukely Turner | Cranston, R. I. | July 25, 1833 |
| Cotton, cleaning | Jeremiah Essex | Bennington, Vt. | Feb. 10, 1846 |
| Cotton, cleaning | Oliver Tenney | Dorchester, Mass. | Jan. 10, 1845 |
| Cotton, cleaning | Emery Smith | N'th Sudbury, Mass. | Sept. 10, 1840 |
| Cotton, cleaning | Jane A. Davis, adm'x of Henry G. Davis, dec'd | Clark county, Ala. | May 16, 1845 |
| Cotton, cleaning | Silas G. Mumford | N. Providence, R. I. | Mar. 28, 1844 |
| Cotton, cleaning | Stephen H. Parkhurst | Providence, R. I. | Oct. 10, 1835 |
| Cotton, cleaning | Charles Atwood | Middletown, Conn. | April 18, 1829 |
| Cotton, cleaning | John Smith | Shaefferstown, Pa. | Aug. 4, 1834 |
| Cotton, cleaning | John Biddis | Pennsylvania | May 6, 1800 |
| Cotton, cleaning | George John Newbery | Citizen U. States, now in London, England | |
| Cotton, cleaning | Thomas B. Rogers | New York | Mar. 3, 1841 |
| Cotton, cleaning | J. Barker and L. Kinsey | Green county, N. Y. | Nov. 3, 1841 |
| Cotton, cleaning | Thomas R. Williams | Newport, R. I. | Aug. 29, 1829 |
| Cotton, cleaning | Samuel E. Foster | Brattleborough, Vt. | May 22, 1830 |
| Cotton, cleaning | William Cole | Lee, Mass. | May 25, 1832 |
| Cotton, cleaning | Oliver Barret, jr. | Troy, N. Y. | Jan. 23, 1833 |
| Cotton, cleaning | John D. Lounsburg, J. Arnold, J. A. McLean and G. G. Bishop | Norwalk, Conn. | Dec. 8, 1812 |
| Cotton, cleaning | Levi Van Hook | Norwalk, Conn. | July 15, 1829 |
| Cotton, cleaning | Marmaduke Osborne | New York, N. Y. | June 27, 1820 |
| Cotton, cleaning | Hezekiah S. Miller | Philadelphia, Pa. | March 5, 1839 |
| Cotton, cleaning | Henry A. Wells | New York | Sept. 18, 1841 |

* Patented in England March 14, 1841. † Reseued Oct. 6, 1835. ‡ Antedated May 12, 1840.

MANUFACTURES.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|--|--------------------------|----------------|
| Flax and hemp, unrotted, machine for..... | William Cumberland. | New York..... | Nov. 29, 1832 |
| Flax machine..... | J. Halladay, T. Eldridge, C. Gibbs, and J. D. Smith..... | Hartford, N. Y..... | Mar. 4, 1830 |
| Flax and hemp, breaking..... | John P. Fry..... | Pulaski, Tenn..... | Dec. 21, 1832 |
| Flax and hemp, breaking and cleaning..... | William McMillen..... | Ripley, Ohio..... | Sept. 3, 1832 |
| Flax and hemp, cleaning and dressing..... | J. C., G. W., and C. E. Geissendorff..... | Cincinnati, Ohio..... | Nov. 28, 1833 |
| Flax and hemp, cleaning and hackling..... | Charles Learned..... | St. Louis, Mo..... | Oct. 22, 1832 |
| Flax and hemp, breaking..... | F. M. Barnes..... | Lexington, Mo..... | Jan. 10, 1833 |
| Flax and hemp, breaking and cleaning..... | John Golden..... | Pittsburg, Iowa Ter..... | Jan. 20, 1833 |
| Flax and hemp, breaking and cleaning..... | William N. Stewart..... | May's Lick, Ky..... | Feb. 4, 1833 |
| Flax and hemp, breaking and scutching..... | Henry Johnson..... | Maysville, Ky..... | Mar. 4, 1833 |
| Flax and hemp, preparing, preparatory to the various processes of cleaning and separating the fibres..... | Sands Olcott..... | New Hope, Pa..... | Mar. 31, 1830 |
| Flax and hemp, reducing the fibres of..... | Sands Olcott..... | Philadelphia, Pa..... | April 11, 1830 |
| Flax, swingling..... | Samuel Achoy..... | Heidelberg, Pa..... | Feb. 18, 1838 |
| Flax and bobbing for twisting silk..... | Oliver Ellsworth..... | Hartford, Ct..... | July 12, 1833 |
| Flier for twisting silk..... | Edward L. Young..... | Norfolk, Va..... | Oct. 8, 1840 |
| Flocks, machine for cutting..... | A. W. Barber..... | Stephentown, N. Y..... | Nov. 18, 1836 |
| Fulling cloth..... | M. W. Northrop and R. E. Dillon..... | Newton, N. J..... | Dec. 4, 1833 |
| Fulling cloth, by steam..... | Ross Winans..... | Warwick, N. Y..... | June 26, 1831 |
| Fulling mill..... | Asa Danielson..... | Osego, N. Y..... | Nov. 16, 1815 |
| Fulling mill..... | Marti Lee..... | Osage, N. Y..... | Nov. 6, 1817 |
| Fulling mill, double crank..... | Levi Osborne..... | Fairfield, Ct..... | July 12, 1834 |
| Fulling mill, and power loom..... | Anson Atwood..... | Salem, N. Y..... | Oct. 1, 1830 |
| Fulling mill, stocks, propelling..... | Elisha O. Norris..... | Monmouth, Me..... | July 7, 1835 |
| Fulling mill, and washing..... | John Kemmon..... | Dutchess co., N. Y..... | July 7, 1835 |
| Fulling and scouring cloth..... | Horace Hickox..... | Rutland, N. Y..... | Mar. 26, 1835 |
| Fulling and scouring, and making carpeting..... | Harvey Slaxton..... | Lockport, N. Y..... | Nov. 25, 1839 |
| Fulling mill..... | Sidney E. Coteman..... | West Haven, Vt..... | June 11, 1841 |
| Furs, process of blowing & cleaning..... | John W. Cochran..... | New York, N. Y..... | Nov. 4, 1842 |
| Fur, blower..... | William R. Rutch..... | New Bedford, Mass..... | Mar. 9, 1834 |
| Fur, blower..... | Shepherd Whitman..... | New Albany, Ia..... | Mar. 22, 1834 |
| Fur, cleaning..... | William Woodworth..... | New York..... | April 19, 1831 |
| Fur, cutting..... | Martin Clark..... | New York..... | April 21, 1810 |
| Fur, cutting..... | Eleanor Sprague..... | Danbury, Ct..... | May 9, 1810 |
| Fur, cutting..... | David Beard..... | Guilford, N. C..... | April 30, 1816 |
| Fur, cutting..... | Jer. Hubbard..... | Jamesstown, N. C..... | Nov. 4, 1835 |
| Fur, cutting..... | Michael Petre..... | Womelsdorf, Pa..... | Dec. 20, 1827 |
| Fur, cutting, and cloth shearing..... | Benjamin Marshall & D. Johnson..... | Portland, Me..... | Nov. 10, 1827 |
| Fur, cutting machine, reciprocat'g..... | Curtis M. Lampton..... | Concord, N. H..... | Dec. 7, 1816 |
| Fur, cutting from pelt..... | Denison Williams..... | New York..... | Feb. 5, 1835 |
| Fur, cutting from pelt..... | Joshua Withelle..... | New York..... | Oct. 25, 1832 |
| Fur, cutting from pelt..... | Ephraim Cutler..... | Boston, Mass..... | May 28, 1811 |
| Fur, cutting from pelt..... | William Jackson..... | Walpole, N. H..... | Feb. 4, 1813 |
| Fur, cutting from skins..... | Ira Ives..... | Burlington, N. J..... | Feb. 9, 1815 |
| Fur, cutting from skins..... | Samuel Johnson..... | Bristol, Ct..... | May 19, 1812 |
| Fur, extracting hair from..... | Sam'l G. Ladd, ass't of South Graham..... | Walnut Lane, N. C..... | Feb. 24, 1837 |
| | | Farmington, Me..... | Mar. 27, 1835 |

MANUFACTURES.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|---|---------------------------|----------------|
| Flax and hemp machine..... | Benjamin Tyler..... | New Hampshire..... | Feb. 26, 1799 |
| Flax and hemp machine..... | Hez. Betts..... | Connecticut..... | May 3, 1802 |
| Flax and hemp machine..... | Richard Burton..... | Pennsylvania..... | April 12, 1804 |
| Flax and hemp machine..... | Thomas Caboon..... | Cazenovia, N. Y..... | Feb. 11, 1807 |
| Flax and hemp machine..... | Richard S. Chappell..... | Pawlet, N. Y..... | April 13, 1808 |
| Flax and hemp machine..... | Elit F. Hill..... | Faubus, N. Y..... | Jan. 18, 1809 |
| Flax and hemp machine..... | Nathaniel P. Robinson..... | Fleming county, Ky..... | Feb. 11, 1809 |
| Flax and hemp machine..... | Edward Rumsey..... | Christian co., Ky..... | Aug. 31, 1810 |
| Flax and hemp machine..... | John C. Johnson..... | Fayette county, Ky..... | April 26, 1811 |
| Flax and hemp machine..... | Robert Miller..... | Lexington, Ky..... | May 16, 1811 |
| Flax and hemp machine..... | J. A. Dana..... | Cazenovia, N. Y..... | July 23, 1811 |
| Flax and hemp machine..... | William Harper..... | Trumbull co., Ohio..... | July 23, 1811 |
| Flax and hemp machine..... | Archibald Tanner..... | Kent, Conn..... | Oct. 15, 1811 |
| Flax and hemp machine..... | Ira Millard..... | Warwick, N. Y..... | May 6, 1813 |
| Flax and hemp machine..... | William Van Duzer..... | Warwick, N. Y..... | June 30, 1818 |
| Flax and hemp machine..... | Francis Hall..... | Tennessee..... | Oct. 7, 1813 |
| Flax and hemp machine..... | G. H. Ricketts and John Kinney, jr..... | Mount Pleasant, N. J..... | July 12, 1814 |
| Flax and hemp machine..... | G. H. Ricketts and John Kinney, jr..... | Mount Pleasant, N. J..... | July 12, 1814 |
| Flax and hemp machine..... | Thomas Fullen..... | Morristown, N. J..... | Oct. 24, 1814 |
| Flax and hemp machine..... | David Melville..... | Lexington, Ky..... | June 20, 1816 |
| Flax and hemp machine..... | Henry Burden..... | Newport, R. I..... | June 18, 1818 |
| Flax and hemp machine..... | William Cumberland..... | Albany, N. Y..... | June 15, 1822 |
| Flax and hemp machine..... | James McDonald..... | New York..... | July 5, 1822 |
| Flax and hemp machine..... | Naman Goodsell..... | New York..... | Aug. 31, 1822 |
| Flax and hemp machine..... | James McDonald..... | Paris, N. Y..... | Sept. 19, 1822 |
| Flax and hemp machine..... | Joseph Hines and William Bain..... | New York..... | Jan. 18, 1823 |
| Flax and hemp machine..... | Frederick Cox..... | Columbus, Ohio..... | Feb. 3, 1823 |
| Flax and hemp machine..... | Benjamin Lewis..... | Somerville, N. J..... | Dec. 4, 1823 |
| Flax and hemp machine..... | Evastus Kellogg..... | Ligonza, Maine..... | Jan. 28, 1824 |
| Flax and hemp machine..... | William C. Devison..... | Pittsford, N. Y..... | May 11, 1824 |
| Flax and hemp machine..... | Franklin Kelsey..... | Middletown, Conn..... | June 22, 1824 |
| Flax and hemp machine..... | T. S. and A. Barnum..... | New York..... | Nov. 26, 1824 |
| Flax and hemp machine..... | John C. Wenzel..... | Louisville, Ky..... | Nov. 27, 1824 |
| Flax and hemp machine..... | Amos Salisbury..... | Philadelphia, Pa..... | Jan. 17, 1825 |
| Flax and hemp machine..... | J. C. Longdon..... | Troy, N. Y..... | April 15, 1829 |
| Flax and hemp machine..... | J. Y. Watson, J. Blossom, and A. Burnett..... | Troy, N. Y..... | April 18, 1829 |
| Flax and hemp machine..... | Thomas Cahoon..... | Salem, N. Y..... | April 21, 1829 |
| Flax and hemp machine..... | Reuben Medley..... | Troy, N. Y..... | April 25, 1829 |
| Flax and hemp machine..... | H. L. Barnum and M. Stephenson..... | Bloomfield, Ky..... | June 11, 1829 |
| Flax and hemp machine..... | Amos Salisbury and J. C. Longdon..... | Cambridge, N. Y..... | July 8, 1829 |
| Flax and hemp machine..... | Lafayette Tibbitts..... | Troy, N. Y..... | July 29, 1829 |
| Flax and hemp machine..... | J. L. F. Rourame..... | New Glasgow, Va..... | Aug. 1, 1829 |
| Flax and hemp machine..... | William K. Scott..... | New York..... | Aug. 6, 1829 |
| Flax and hemp machine..... | John Rich, jr..... | Sandy Hill, N. Y..... | Feb. 11, 1830 |
| Flax and hemp machine..... | Daniel Ball..... | Troy, N. Y..... | May 20, 1830 |
| Flax and hemp machine..... | Robert McCormick..... | Sandy Hill, N. Y..... | July 7, 1830 |
| Flax and hemp machine..... | Joel Dewey, jr..... | Rockbridge co., Va..... | Oct. 1, 1830 |
| Flax and hemp, preparing..... | Wm. Pickeringbottom..... | Troy, N. Y..... | Nov. 25, 1830 |
| Flax and hemp, preparing..... | John Goulding..... | New York..... | July 12, 1816 |
| Flax and hemp, preparing for spinning..... | John Owings..... | Boston, Mass..... | Aug. 17, 1835 |
| Flax and hemp, preparing for spinning..... | Pnder Antrim..... | Baltimore, Md..... | Mar. 5, 1812 |
| Flax and hemp, rotating by steam..... | John Goulding..... | Philadelphia, Pa..... | Nov. 25, 1814 |
| Flax and hemp, and tow hatching | | Harrison county, Ky..... | Dec. 28, 1835 |
| | | Boston, Mass..... | Oct. 10, 1835 |

MANUFACTURES.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|---|----------------------|----------------|
| Gin, cotton, roller. | Samuel Sawyer. | Boston, Mass. | Mar. 30, 1833 |
| Gin, cotton, roller. | W. m. Whittemore, jr. | W. Cambridge, Mass. | Mar. 7, 1834 |
| Gin, cotton, roller. | W. m. Whittemore, jr. | W. Cambridge, Mass. | May 29, 1835 |
| Gin, cotton, roller. | Eleazer Carver. | Bridgewater, Mass. | Sept. 27, 1838 |
| Gin, cotton, roller, ginning long staple cotton. | Theodore Ely. | New York. | Dec. 11, 1845 |
| Gin, cotton, roller, ginning long staple cotton. | Eleazer Carver. | Bridgewater, Mass. | Jan. 17, 1849 |
| Gin, cotton, saw cylinder for. | Jacob Idler. | Philadelphia, Pa. | Dec. 1, 1837 |
| Gin, cotton, saw cylinder for. | Alexander Jones. | New York, N. Y. | July 20, 1842 |
| Gin, cotton, saw-gin for ginning cotton. | C. A. McPhetridge. | Natchez, Miss. | April 24, 1841 |
| Gin, cotton, saw for ginning cotton. | Theodore J. James. | Princeton, Mass. | May 7, 1842 |
| Gin, saw, ginning cotton. | H. Henry H. Kelley. | Port Gibson, Miss. | May 19, 1843 |
| Gin, saw, ginning cotton. | William B. Stewart. | Cincinnati, Ohio. | May 19, 1843 |
| Gin, cotton, saw-gin for ginning cotton. | Eleazer Carver. | Bridgewater, Mass. | April 4, 1844 |
| Gin, cotton, saw-gin for ginning cotton. | John H. Sherrard. | Livingston, Ala. | April 30, 1844 |
| Gin, cotton, saw. | G. F. Saltonstall. | North Carolina. | Jan. 4, 1803 |
| Gin, cotton, saw. | Phineas Gardner. | Woodville, Mass. | April 22, 1830 |
| Gin, cotton, saw. | Eleazer Carver. | Bridgewater, Mass. | Jan. 4, 1845 |
| Gin, cotton, saw and grates for. | Eleazer Carver, jr. | Bridgewater, Mass. | June 12, 1838 |
| Gin, cotton, saw ribs for*. | Eleazer Carver, jr. | Bridgewater, Mass. | June 12, 1838 |
| Gin, cotton and wool. | Stephen R. Parkhurst. | New York. | May 1, 1845 |
| Hair cloth. | William Shotwell and Arthur Kinder. | New York. | July 23, 1813 |
| Hair, curled, carding, and picking. | Francis Harding. | Cleveland, Ohio. | Aug. 25, 1845 |
| Hair, extracting from fur, &c. | Ephraim Cutler. | Brattleborough, Vt. | Mar. 1, 1809 |
| Hair, extracting from fur, &c. | Ephraim Cutler. | Walpole, N. H. | Feb. 12, 1810 |
| Hair, extracting from fur, &c. | John Hollingshead and Daniel Baker. | Trenton, N. J. | Aug. 19, 1813 |
| Hair, extracting from skins. | Nahum Sweet. | Redfield, Maine. | Nov. 14, 1835 |
| Hair, hatching. | William Chubb. | New York. | July 9, 1822 |
| Hair, picking, curled. | John Thompson, 3d. | Essex county, Mass. | July 8, 1834 |
| Hair, picking, &c., for mattresses. | Asahel Green and J. S. Osgood. | Hamilton, N. Y. | Dec. 18, 1822 |
| Hair, pulling from skins. | Nicholas Young. | Pennsylvania. | June 28, 1803 |
| Hair, seating, weaving. | Charles R. Harvey. | Poughkeepsie, N. Y. | Nov. 25, 1837 |
| Hair, separating from fur. | John McDonald. | New York. | Sept. 11, 1827 |
| Hair, separating from skins. | Samuel Brooks. | New York. | April 4, 1822 |
| Hair, shaving from deer skins. | Kodolph Groving. | New Orleans, La. | Oct. 10, 1831 |
| Hatching machine. | James Patterson. | Southampton, N. Y. | Dec. 7, 1805 |
| Hat blocks. | A. and S. Chichester. | Willton, Conn. | May 29, 1835 |
| Hat, blocking. | David Beard. | Gulford, N. C. | May 28, 1816 |
| Hat, blocking. | W. W. Jameson. | Wheeling, Ohio. | Mar. 30, 1836 |
| Hat, bodies. | H. F. West and A. F. Stevens. | Richland, N. Y. | Oct. 29, 1838 |
| Hat, bodies. | Benjamin Lapham and E. Cady. | Canaan, N. Y. | April 15, 1829 |
| Hat, bodies. | A. Clarke & H. Chase. | Falmouth, Mass. | June 11, 1829 |
| Hat, bodies. | Levi Van Hoeseu. | Norwalk, Conn. | June 19, 1834 |
| Hat, bodies. | William Nuns. | New York. | Aug. 14, 1834 |
| Hat, bodies. | Hugh Moore. | New York city. | April 20, 1837 |
| Hat, bodies. | Henry A. Wells, jr. | New York. | Sept. 20, 1837 |
| Hat-bodies, fabrics for. | James & R. W. Peck. | Brooklyn, N. Y. | May 1, 1845 |
| Hat-bodies, mode of forming. | Isaac L. Chapman. | New York. | Nov. 11, 1845 |
| Hats, bodies, bats. | Marmaduke Osborne. | New York. | Nov. 11, 1845 |
| Hats, bodies, batting or web for. | Stephen Harbut. | Glastonbury, Conn. | Feb. 14, 1831 |
| Hats, bodies, batting or web for. | Thomas Blanchard. | New York city. | June 14, 1837 |
| Hats, bodies, batting or web for. | Henry A. Wells, Jas. James, and Robert W. Peck. | Brooklyn, N. Y. | Sept. 22, 1837 |
| Hats, bodies forming. | Orlando Root. | Montgomery co. N. Y. | Dec. 19, 1829 |
| Hats, bodies forming. | A. H. Stevens. | Richland, N. Y. | Jan. 27, 1830 |

* Reissued Nov. 16, 1839.

MANUFACTURES.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|---|---------------------------|----------------|
| Fur, extracting from skins, and manufacturing it in yarn. | Levi Ward, assee of Phoebe Atwell. | Walworth, N. Y. | April 30, 1834 |
| Fur, pulling from hair. | William Jackson. | Burlington, N. J. | Feb. 2, 1815 |
| Fur, substitute for dressed fur skins. | C. Lockwood, R. Lockwood, & J. Arnold. | Fairfield, Ct. | Dec. 4, 1832 |
| Gin, cotton. | Allen Beiden. | Hudson, N. Y. | April 22, 1835 |
| Gin, cotton. | Eli Whitney. | Massachusetts. | Mar. 14, 1794 |
| Gin, cotton. | Hodgen Holmes. | Georgia. | May 12, 1796 |
| Gin, cotton. | Robert Watkins. | Georgia. | Dec. 23, 1796 |
| Gin, cotton. | John Murray. | Georgia. | Dec. 23, 1796 |
| Gin, cotton. | Eben Whiting. | Massachusetts. | Jan. 22, 1801 |
| Gin, cotton. | Wm. Bell & Sam'l D. Montmollen. | Georgia. | April 7, 1802 |
| Gin, cotton. | Wm. Bell and J. S. D. Montmollen. | Georgia. | Mar. 7, 1803 |
| Gin, cotton. | William Bell. | Pennsylvania. | Nov. 24, 1803 |
| Gin, cotton. | John McBride. | Nashville, Tenn. | Aug. 8, 1805 |
| Gin, cotton. | Obad Crawford. | New York. | June 22, 1807 |
| Gin, cotton. | Robert Hancock, sen., & Edward W. Carr. | Philadelphia, Pa. | Feb. 6, 1811 |
| Gin, cotton. | Isaiah Jennings. | New York. | Dec. 27, 1815 |
| Gin, cotton. | Engelhart Cruse. | Charleston, S. C. | Nov. 18, 1816 |
| Gin, cotton. | Isaiah Jennings. | New York. | Jan. 17, 1817 |
| Gin, cotton. | Samuel Pennoyer. | Cross Rivers, N. Y. | July 24, 1822 |
| Gin, cotton. | Eleazer Carver, jun. | Bridgewater, Mass. | June 13, 1823 |
| Gin, cotton. | J. and T. Leavitt. | Compt. Lane, Suffolk, Ct. | Mar. 24, 1825 |
| Gin, cotton. | Isaac B. Barnes. | Beaufort, S. C. | Nov. 6, 1826 |
| Gin, cotton. | David Phillips. | Jefferson co., Miss. | April 3, 1829 |
| Gin, cotton. | S. T. Gomi. | New York. | June 11, 1829 |
| Gin, cotton. | Samuel Sawyer. | Boston, Mass. | Mar. 30, 1833 |
| Gin, cotton. | James Lynch. | Tuscaloosa, Ala. | July 22, 1833 |
| Gin, cotton. | Jacob Perkins. | Bridgewater, Mass. | June 14, 1834 |
| Gin, cotton. | W. & J. McCreight. | Winstborough, S. C. | Feb. 5, 1836 |
| Gin, cotton. | Henry Clark. | New London, Ct. | Feb. 25, 1836 |
| Gin, cotton. | Pierson Reading. | Trenton, N. J. | April 13, 1836 |
| Gin, cotton. | James McCreight. | Winstborough, S. C. | July 2, 1836 |
| Gin, cotton. | Alexander Jones. | New Orleans, La. | April 25, 1837 |
| Gin, cotton. | Goodell, Brown, Tracy & Moseley, ass'nes of J. Stevens. | Poughkeepsie, N. Y. | Nov. 25, 1837 |
| Gin, cotton. | Laelius H. Mosely. | Poughkeepsie, N. Y. | Nov. 25, 1837 |
| Gin, cotton. | Wm. Whittemore, jr. | W. Cambridge, Mass. | May 29, 1839 |
| Gin, cotton. | Henry Conklin. | Poughkeepsie, N. J. | June 7, 1839 |
| Gin, cotton. | John Beath. | Boston, Mass. | July 12, 1839 |
| Gin, cotton. | Fones McCarthy. | Denopolis, Ia. | July 2, 1840 |
| Gin, cotton. | Lewis G. Suredavant. | Delaware, Ohio. | July 23, 1841 |
| Gin, cotton. | William F. Baker. | Boston, Mass. | Nov. 20, 1838 |
| Gin, cotton, boxing for. | William S. Cooley. | Norwich, Ct. | Jan. 7, 1835 |
| Gin, cotton, constructing & affixing the ribs or grates of saw-gins. | Ara Copeland, jr. | Bridgewater, Mass. | April 8, 1840 |
| Gin, cotton, feeder. | Joseph Ewbank, jr. | Glasgow, Ky. | July 29, 1838 |
| Gin, cotton, foot. | William Gaulk. | McIntosh co., Ga. | Feb. 28, 1821 |
| Gin, cotton, frame. | Eben. A. Lester. | Boston, Mass. | Jan. 8, 1831 |
| Gin, cotton, frames of saw-gin. | Albert Washburn. | Bridgewater, Mass. | June 16, 1841 |
| Gin, cotton, grates. | Edwin Keith. | Bridgewater, Mass. | Mar. 4, 1836 |
| Gin, cotton, hopper. | G. F. Saltonstall. | Fayetteville, N. C. | Dec. 21, 1817 |
| Gin, cotton, improvement in. | Peter Von Schmidt. | Washington, D. C. | Oct. 17, 1846 |
| Gin, cotton, improvement in. | Edwin Keith. | Bridfield, Mass. | Dec. 23, 1846 |
| Gin, cotton, in the roller. | Richard Reynolds, jr. | Beaufort, S. C. | Feb. 2, 1844 |
| Gin, cotton, propelling. | Peter Knox. | Augusta, Ga. | Dec. 7, 1836 |
| Gin, cotton, railroad. | David Phillips. | Georgetown, Pa. | May 22, 1841 |
| Gin, cotton, roller. | Wm. Whittemore and Wm. Whittemore, jr. | West Cambridge. | Mar. 21, 1833 |

* Reissued Feb. 19, 1832.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|--|----------------------|----------------|
| Hats, manufacture. | Joel Taylor and Chas. Brown. | Danbury, Conn. | Jan. 13, 1832 |
| Hats, military | Shubael Hoskin. | Catskill, N. Y. | April 30, 1810 |
| Hats, military | Samuel Tibbals, Jr. | Tyringham, Mass. | Dec. 26, 1810 |
| Hats, napping | James Long. | Maryland | Aug. 5, 1799 |
| Hats, napping | Jos. Dart, Jr., William Wells & Dan'l Olinstead. | Buffalo, N. Y. | May 12, 1832 |
| Hats, napping | L. Lyon, 2d. | Needham, Mass. | May 16, 1834 |
| Hats, napping | L. Lyon, 2d. | Needham, Mass. | April 13, 1835 |
| Hats, napping, application of hot water. | Hiram Wortham and Garrard S. Pelly. | Lancaster, Ky. | July 9, 1832 |
| Hats, napping, with rabbit's fur. | Andrew Rankin. | Newark, N. J. | Sept. 20, 1839 |
| Hats, palm leaf. | David Evans. | Alexandria, D. C. | Oct. 2, 1830 |
| Hats, patent pressing. | Frederick Groening. | Brooklyn, N. Y. | June 25, 1836 |
| Hats, paper | Chester Gorham. | Barre, Mass. | Mar. 3, 1840 |
| Hats, plank kettle for. | Jos. Ford & John White. | Boston, Mass. | Nov. 25, 1811 |
| Hats, plank kettle for. | Schuyler Fisher. | Herkimer, N. Y. | July 15, 1816 |
| Hats, planking | Ezra Joyce. | Brooklyn, N. Y. | June 6, 1825 |
| Hats, planking | Jo. Pitkin and Timothy Kimball. | Hartford, Conn. | Oct. 19, 1807 |
| Hats, planking | John Macgregor. | Greene co., Pa. | Mar. 14, 1810 |
| Hats, planking | L. L. Macomber. | Bath, Maine. | Dec. 31, 1825 |
| Hats, planking | Robert Bacon. | Boston, Mass. | Jan. 31, 1827 |
| Hats, planking | George Page & Edwin Page. | Manchester, Conn. | Nov. 9, 1832 |
| Hats, pressing and felting. | Israel Swanwick. | Everhill, N. H. | Mar. 7, 1811 |
| Hats, pressing leghorn, &c. | R. Tyler & B. P. Coston. | Philadelphia, Pa. | May 23, 1826 |
| Hats, rounding and gauging. | Samuel Jones. | Bridgeport, Pa. | June 2, 1819 |
| Hats, scalding and napping. | Daniel Baldwin. | Ithaca, N. Y. | Oct. 13, 1829 |
| Hats, scalding and napping. | Alonson P. Gregory. | Ithaca, N. Y. | May 13, 1830 |
| Hats, setting up. | Joseph Grant. | Providence, R. I. | Aug. 11, 1821 |
| Hats, setting or ironing the brims of. | Francis Degen. | New York, N. Y. | Aug. 31, 1842 |
| Hats, sizing and napping. | George Henning. | Ithaca, N. Y. | April 28, 1830 |
| Hats, by steam. | William Harkins. | Wheeling, Va. | Dec. 29, 1836 |
| Hats, by steam. | David Sutton. | Lancaster, Ky. | June 13, 1831 |
| Hats, by steam, and hardening. | Jonathan Sizer. | New London, Ct. | Nov. 6, 1811 |
| Hats, by steam, and hardening. | Nivum Willhand. | Danbury, Conn. | April 9, 1834 |
| Hats, stiffening. | A. and G. V. Raymond. | Baltimore, Md. | Feb. 7, 1818 |
| Hats, stiffening. | Jonathan D. Wilson. | New York | Aug. 6, 1830 |
| Hats, stiffening, late for. | Henry Raymond. | Baltimore, Md. | Nov. 20, 1832 |
| Hats, washing and cleaning. | Samuel Drinkhouse. | Eastonborough, Pa. | Jan. 30, 1832 |
| Hats, washing and cleaning. | William Carlock. | Baltimore, Md. | Jan. 12, 1830 |
| Hats, water proof, elastic. | Rickard Mills. | Baltimore, Md. | Feb. 27, 1832 |
| Hats, water proof, of paper. | A. Baflum & J. Kelly. | Wesfield, R. I. | Feb. 17, 1820 |
| Hats, water proof, stiffening. | Benjamin Grut. | New York | Oct. 1, 1830 |
| Hats, water proof, stiffening. | William Buckles. | Baltimore, Md. | Nov. 28, 1817 |
| Hats, water proof, stiffening. | Johan H. Tigge. | Washington, D. C. | Sep. 23, 1819 |
| Hats, water proof, stiffening. | Stephen Hempstead, Jr. | St. Charles co., Mo. | May 25, 1837 |
| Hats, water proof, stiffening. | Stephen Hempstead, Jr. | St. Charles co., Mo. | Oct. 26, 1837 |
| Hats, water proof, stiffening. | George W. Downs. | Circleville, Ohio | Oct. 25, 1832 |
| Hats, water proof, silk. | George B. Dexter. | Boston, Mass. | Jan. 6, 1836 |
| Hats, without bowing | Lucy Burnap. | Merrimack, N. H. | Feb. 16, 1823 |
| Hatters' fur machine. | Roswell Pitkin. | East Hartford, Ct. | April 23, 1808 |
| Hatters' furnace for heating irons. | Nicholas Young. | Pennsylvania. | May 14, 1802 |
| Hatters' furnace for heating irons. | G. V. Raymond. | Richmond, Va. | Sep. 29, 1825 |
| Hatters' frames, steam boiler applied. | Daniel L. Tuthill. | New York | Nov. 8, 1831 |
| Hatters' kettles, constructing | H. V. Raymond. | New York | Sept. 16, 1824 |
| Hamp, break. | William Porter and Abram. Sauger. | Waltham, Mass. | July 8, 1834 |
| Hemp, break. | J. S. Van de Graaff. | Scott, Ky. | May 12, 1828 |
| Hemp, breaking | William Mason. | Washington co., O. | Dec. 28, 1829 |
| Hemp, breaking | William Greathouse. | Mason co., Ky. | July 30, 1831 |

* Retissued Dec. 31, 1845.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|-----------------------------------|---------------------|----------------|
| Hats, bodies, forming. | Seth Graham. | Fayette, Maine. | May 15, 1832 |
| Hats, bodies, machinery | Daniel Tenny. | Plattsburg, N. Y. | Oct. 1, 1830 |
| Hats, bodies, setting up. | Joseph Bryant. | Providence, R. I. | April 28, 1825 |
| Hats, bodies, stiffening. | Henry Glynn. | Newark, N. J. | May 9, 1835 |
| Hats, bodies, stiffening. | J. P. Kittell and J. Wright. | Worcester co. Mass. | June 11, 1836 |
| Hats, bodies, stiffening. | E. P. Spear. | Lexington, Mass. | July 2, 1836 |
| Hats, bodies, winding and setting up. | Joseph Grant. | Providence, R. I. | April 10, 1837 |
| Hats, bonnets, &c., bark for. | Elisha Pratt. | Cambridge, Mass. | May 16, 1825 |
| Hats, bonnets, &c., bark for. | Sylvester G. Whipple. | Hallowell, Mass. | April 17, 1807 |
| Hats, bonnets, cutting chips for. | Amos D. Allen and A. Kelsey. | Windham, Conn. | Sept. 5, 1804 |
| Hats, bonnets, of grass. | Garden Wells & Sophia Wells. | Wethersfield, Conn. | Dec. 29, 1821 |
| Hats, bonnets, &c., ironing and pressing | Richard Murdoch. | Baltimore, Md. | June 17, 1840 |
| Hats, bonnets, &c., straw, pressing and finishing. | William Chaplin. | New York | Sept. 10, 1840 |
| Hats and bonnets of horse hair. | Jonathan Dennis. | Portsmouth, R. I. | May 2, 1843 |
| Hats and bonnets, machine for pressing | Charles L. Noe. | New York | July 20, 1843 |
| Hats, bowing, gearing cones. | Caleb Merritt. | Baltimore, Md. | Mar. 13, 1844 |
| Hats, bowing, gearing cones. | Thomas F. Mayhew. | Boston, Mass. | Aug. 22, 1827 |
| Hats, bowing wool, &c. | H. S. Galladay and E. G. Griffin. | Lyme, Conn. | June 6, 1819 |
| Hats, bowing for. | Edward C. Griffin. | Lyme, Conn. | Aug. 10, 1815 |
| Hats, buoyant, used as life-preservers. | Daniel Nichols. | New Milford, Conn. | March 11, 1809 |
| Hats, carding. | Samuel White White. | England. | Oct. 14, 1840 |
| Hats, carding. | Josiah C. Seely. | Dutchess co., N. Y. | Mar. 15, 1827 |
| Hats, cassimere. | Isaac Sanford. | Dorchester, Pa. | Oct. 10, 1838 |
| Hats, cemented. | Oliver Brooks and Jas. A. Sloop. | Philadelphia, Pa. | Nov. 9, 1843 |
| Hats, chip | Nathan Weston. | Reading, Mass. | May 24, 1816 |
| Hats, coloring. | Amos D. Allen. | Windham, Conn. | May 10, 1804 |
| Hats, coloring and cooling | George M. Johnson. | Port Deposit, Md. | Dec. 31, 1839 |
| Hats, coloring and cooling | Joel Taylor. | Danbury, Conn. | Nov. 20, 1833 |
| Hats, coloring and cooling | Richard Pike. | Wilton, Conn. | Jan. 23, 1834 |
| Hats, coloring and cooling | Harmon Hibbard. | Atica, N. Y. | May 25, 1838 |
| Hats, coloring and polishing nap of. | Daniel Greenleaf. | Vicksburg, Miss. | Nov. 26, 1836 |
| Hats, coloring and polishing nap of. | John Lowdon & Thos. Shaw. | New York | May 7, 1845 |
| Hats, felting and napping | Thomas J. Cornell. | Randolph, Vt. | Feb. 11, 1831 |
| Hats, finishing. | J. Cooper & P. Barnett. | Philadelphia, Pa. | May 31, 1836 |
| Hats, &c., leghorn, finishing | Joseph Snyder. | Philadelphia, Pa. | Aug. 21, 1834 |
| Hats, forming, wool andorum | John Warely. | Albany, N. Y. | Oct. 14, 1813 |
| Hats, frame for. | Richard Gookins. | New Hampshire. | Jan. 24, 1806 |
| Hats, fur, preparing. | George Cleveland. | Hartford, Ct. | Sept. 9, 1803 |
| Hats, fur, preparing. | Arnold Buffum. | Troy, N. Y. | Sept. 23, 1825 |
| Hats, hardening them on a cone. | Stephen Hurlbut. | Glastonbury, Ct. | June 13, 1831 |
| Hats of leather.—See Class 16. | John N. Genin. | New York | July 22, 1845 |
| Hats, manufacture of. | John Maguire. | Washington, D. C. | Dec. 7, 1844 |
| Hats, manufacture of. | Ezra Corning, Jr. | Connecticut. | July 13, 1803 |
| Hats, manufacture. | William Goodrich. | Philadelphia, Pa. | Aug. 20, 1816 |
| Hats, manufacture. | Henry Larnhart, Jr. | Baltimore, Md. | June 6, 1809 |
| Hats, manufacture. | Jedediah Carleton. | Salem, N. H. | Jan. 21, 1814 |
| Hats, manufacture. | Jehiel Bryant and John Bryant. | Saratoga, N. Y. | Aug. 26, 1815 |
| Hats, manufacture. | Silas Mason. | Norfolk, Mass. | Feb. 20, 1819 |
| Hats, manufacture. | George Thacher. | Brooklyn, N. Y. | May 31, 1828 |

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|-----------------------------|----------------|
| Loom, knitting..... | Richard Walker and Jefferson McInture. | Portsmouth, N. H. | Feb. 12, 1844 |
| Loom, knitting*..... | Pierre E. Ladrangé..... | Vignory, kingdom of France. | Oct. 16, 1844 |
| Loom, lint..... | Francis Hall..... | Charlestown, Mass. | Nov. 28, 1817 |
| Loom, making and using..... | John Goulding..... | Dedham, Mass. | July 7, 1830 |
| Loom, metallic, heddle for..... | W. James & D. Bolles..... | Ashford, Ct..... | April 26, 1815 |
| Looms, mode of delivering warp in..... | John Coulter..... | Zenia, Ohio..... | April 25, 1843 |
| Looms, operating shuttles of..... | R. P. Cunningham..... | Abington, Ct..... | Dec. 16, 1845 |
| Loom, picker, tube..... | Benjamin Holbrook..... | Providence..... | Feb. 21, 1826 |
| Loom, power..... | William Ginhorn..... | Smithfield, N. Y..... | Oct. 28, 1820 |
| Loom, power..... | Wm. B. Leonard..... | Fishkill, N. Y..... | May 23, 1827 |
| Loom, power..... | Amasa Stone..... | Providence, R. I..... | April 30, 1829 |
| Loom, power..... | James C. Kempton..... | Manayunk, Pa..... | June 14, 1834 |
| Loom, power..... | Aden Holbrook & B. French..... | Dunstable, N. H..... | June 17, 1834 |
| Loom, power..... | David Whitman..... | Windham, Ct..... | Mar. 20, 1835 |
| Loom, power..... | William G. Gavit..... | Washington co., R. I..... | April 8, 1835 |
| Loom, power..... | F. C. Lewis..... | Grafton, Mass..... | Mar. 30, 1836 |
| Loom, power..... | Benjamin Lapham..... | Waterford, N. Y..... | June 28, 1836 |
| * Loom, power..... | Elijah Fairman..... | Stafford, Ct..... | Feb. 6, 1838 |
| Loom, power..... | Wm. B. Pender & N. C. Horn..... | Wolfeborough, N. H..... | Aug. 15, 1838 |
| Loom, power..... | Caleb Duxbury and J. Nield..... | Taunton, Mass..... | April 21, 1842 |
| Loom, power..... | James Nield..... | Taunton, Mass..... | May 25, 1844 |
| Loom, power..... | James Nield..... | Taunton, Mass..... | Mar. 15, 1845 |
| Loom, power..... | James Nield..... | Taunton, Mass..... | Mar. 15, 1845 |
| Loom, power..... | Daniel Barnum..... | Bridgport, Ct..... | Mar. 26, 1845 |
| Loom, power..... | George B. Sanford..... | Funey, Vt..... | Mar. 17, 1843 |
| * Loom, power, broad..... | John Leland..... | Milbury, Mass..... | Mar. 9, 1833 |
| * Loom, power, check and plaid..... | E. Burt, O. D. Boyd, and A. H. Boyd..... | Manchester, Ct..... | Aug. 19, 1838 |
| Loom, power and common..... | Benjamin Lapham..... | Saratoga, N. Y..... | Jan. 20, 1838 |
| * Loom, power, figure..... | James M. Hoggan..... | New Haven, Ct..... | Oct. 14, 1834 |
| * Loom, power, figure..... | William Crompton..... | Taunton, Mass..... | Nov. 25, 1837 |
| * Loom, power, friction to yarn beam..... | Stephen Kimball..... | Putney, Vt..... | May 30, 1838 |
| Loom, power, lathe for..... | John Whitehead..... | N. Providence, R. I..... | Aug. 30, 1819 |
| Loom, power, lay for..... | Benjamin Brooks..... | New Market, N. H..... | Dec. 17, 1834 |
| Loom, power, for silks..... | Garniel Gay..... | Poughkeepsie, N. Y..... | Sept. 26, 1835 |
| Loom, power, and stopping..... | Jesse Taylor & Joseph Woodhead, & Wm. B. Leonard..... | Middletown, Pa..... | April 21, 1831 |
| Loom, power, & taking up cloth..... | Wm. B. Leonard..... | Fishkill, N. Y..... | May 23, 1827 |
| Loom, power, & taking up motion..... | Amasa Stone..... | Johnston, R. I..... | Aug. 17, 1825 |
| Loom, power, & taking up motion..... | H. Hendrick..... | Killingly, Ct..... | Sept. 29, 1836 |
| Loom, power, & taking up motion..... | John P. Comins..... | Killingly, Ct..... | Oct. 20, 1836 |
| Loom, power, treadle in..... | Eh. Horton..... | Stafford, Ct..... | Feb. 22, 1838 |
| Loom, power, upright..... | C. Shepard & J. Thorpe..... | Taunton, Mass..... | July 25, 1816 |
| Loom, power, weav'g stock/frames..... | F. Goodell and F. H. Harvey..... | Ramapo, N. Y..... | Dec. 2, 1835 |
| Loom, power, wire..... | John S. Gustin..... | New York..... | Feb. 23, 1836 |
| Loom, power, mode of throwing shuttles!..... | R. P. Cunningham..... | Pomfret, Ct..... | April 25, 1843 |
| Loom, power, weaving plain cloth..... | Frederick Downing..... | Enfield, Mass..... | Jan. 27, 1843 |
| Loom, power, for weaving plaid..... | Erasmus B. Bigelow..... | Boston, Mass..... | April 10, 1845 |
| Loom, power, rotary temples for..... | George Draper..... | Saugus, Mass..... | Feb. 24, 1842 |
| Loom, power, stopping when wfd and filling falls..... | O. M. Stillman..... | Stonington, Ct..... | Nov. 10, 1841 |
| Loom, power, weaving carpets..... | Thomas Flint..... | Boston, Mass..... | June 27, 1841 |
| Loom, power, weaving counter-pantess!..... | Erasmus B. Bigelow..... | Lancaster, Mass..... | July 28, 1842 |
| Loom, power, weaving counter-pantess!..... | Erasmus B. Bigelow..... | Lancaster, Mass..... | Aug. 2, 1842 |

* Patented in France, June 1, '43. † Aneadated Oct. 31, '42. ‡ Reissued Mar. 14, '46. ‡ Aneadated May 1, '42.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|---------------------------|---|
| Loom, power, weaving figured counterpanes..... | Erasmus B. Bigelow..... | Lancaster, Mass..... | April 24, 1840 |
| Loom, reeds, machine for making..... | Jephtha A. Wilkinson..... | Osego, N. Y..... | July 3, 1816 |
| Loom, reeds..... | Jacob Sennett..... | Philadelphia, Pa..... | Oct. 1, 1890 |
| Loom, reeds..... | Rutland township, Ct..... | Rutland township, Ct..... | Oct. 17, 1831 |
| Loom, reeds, heddles or harness*..... | Jephtha A. Wilkinson..... | Providence, R. I..... | July 17, 1831 |
| Loom, reeds, metallic..... | Peter F. Herben..... | Providence, R. I..... | Nov. 15, 1831 |
| Loom, reeds, polishing wire or br..... | Class 2..... | Patterson, N. J..... | Nov. 15, 1831 |
| Loom, regulating yarn beam..... | Welcome A. Potter..... | Cranston, R. I..... | Nov. 23, 1837 |
| Loom, regulating the delivery of the warp from the warp beam..... | William H. Brayton..... | Warren, R. I..... | Jan. 6, 1844 |
| Loom, rotary temples for..... | Isaac C. Lane..... | Walham, Mass..... | Mar. 26, 1844 |
| Loom, sail cloth..... | James Davenport..... | New Jersey..... | Feb. 14, 1794 |
| Loom, sail ducK..... | James Richards..... | Patterson, N. J..... | Aug. 10, 1821 |
| Loom, sattinette..... | Joseph Chapman..... | Frankfort, Pa..... | July 9, 1821 |
| Loom, sattinette, power..... | Richard Mitchell and N. Butterworth..... | Uxbridge, Mass..... | May 17, 1838 |
| Loom, securing the bobbin in shuttles for weaving..... | Daniel Leavitt..... | Troy, Mass..... | Mar. 22, 1838 |
| Loom shuttles, mode of throwing..... | John Goulding..... | Cabotville, Mass..... | Aug. 18, 1842 |
| * Loom, shuttle, spindle spring..... | Comfort B. Thorpe..... | Smithfield, R. I..... | April 17, 1837 |
| * Loom, shuttle, tongue..... | Samuel Cranston..... | Cumberland, R. I..... | Mar. 20, 1839 |
| * Loom, shuttle, tying knoets..... | John Thorne..... | Providence, R. I..... | Nov. 20, 1835 |
| Loom, shuttles for weaving cloth..... | James Baldwin..... | Nashua, N. H..... | Jan. 31, 1840 |
| Loom, silk, weaving narrow goods..... | Cornelius Bergen..... | Brooklyn, N. Y..... | Dec. 18, 1839 |
| Loom for silk ribbons..... | C. Ganahl, assignor to F. Ganahl..... | Innsbruck, Austria..... | Oct. 3, 1846; for pat. dated May 19, 1837 |
| Looms, stop apparatus for..... | Enoch Burt..... | Manchester, Ct..... | June 20, 1847 |
| Loom, stocking..... | John Herrick..... | Stockbridge, Mass..... | Oct. 22, 1813 |
| Loom, stocking..... | John Bazin, jr..... | Canton, Mass..... | Oct. 26, 1814 |
| * Loom, stocking, rotary power..... | Aaron Porter..... | Queensbury, N. Y..... | Aug. 22, 1816 |
| Loom, temples for..... | Richard Walker..... | Portsmouth, N. H..... | Dec. 5, 1839 |
| Loom, temples..... | J. Beard & A. Whitney..... | Walham, Mass..... | April 6, 1842 |
| Loom temples..... | Erasmus B. Bigelow..... | Boston, Mass..... | Feb. 24, 1845 |
| Loom temples..... | Benjamin Rogers..... | Beaver creek, Ohio..... | Nov. 24, 1814 |
| Loom temples..... | John Bazin, jr..... | Canton, Mass..... | Aug. 8, 1823 |
| Loom temples..... | Philo C. C. J. Ivis..... | Paris, N. Y..... | June 16, 1835 |
| Loom temples..... | Oseanus S. Stillman..... | Brookfield, N. Y..... | Jan. 30, 1836 |
| Loom temples..... | John Standish..... | Providence, R. I..... | Nov. 11, 1830 |
| Loom temples..... | Peter Newell..... | Waterford, N. Y..... | Jan. 5, 1833 |
| Loom temples..... | C. T. K. Rawlings..... | Lowell, Mass..... | Aug. 30, 1833 |
| * Loom temples, opening and closing the jaw..... | Erasmus Williams and Daniel A. Smith..... | Killingly, Conn..... | Oct. 19, 1838 |
| Loom temples, perpetual..... | Dan. L. Huntington..... | Norwich, Conn..... | Nov. 15, 1841 |
| Loom temple, revolving bar..... | E. B. Harris and A. R. Arnold..... | Townshend, Mass..... | Feb. 23, 1816 |
| * Loom, temples, rotary..... | George Draper..... | Woodstock, Conn..... | April 13, 1830 |
| * Loom, temples, self-acting!..... | Ira Draper..... | Palmer, Mass..... | Oct. 28, 1840 |
| Loom temple, self-acting..... | Jonathan Dennis, jr, assignee of Kendall Gibbs..... | Saugus, Mass..... | April 1, 1839 |
| Loom temples, self-acting rotary..... | Arnold Palmer..... | Portsmouth, R. I..... | Feb. 13, 1839 |
| * Loom temple, self-adjusting..... | William Craig and John Cochran..... | New Lebanon, N. Y..... | Feb. 10, 1846 |
| Loom temple, self-operating..... | Samuel P. Mason..... | England..... | Nov. 25, 1841 |
| Loom temple, sliding..... | Ephraim R. Otis..... | Newport, R. I..... | July 22, 1837 |
| Loom temple, spring..... | John Waterman..... | River Head, Conn..... | April 2, 1830 |
| Loom treadsles and harness..... | A. Jenk and J. Clewell..... | Providence, R. I..... | May 28, 1818 |
| Loom, vibrating, cam..... | B. Herford and W. B. Tilton..... | Helmsburg, Pa..... | Mar. 19, 1827 |
| Loom, vibrating, cam..... | William H. Howard..... | Enfield, N. H..... | Dec. 20, 1847 |

* Reissued May 24, 1839; lost by fire Dec. 16, 1836; renewed Aug. 29, 1836; and again reissued April 27, 1847. † Aneadated November 6, 1838.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. | INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|---|-------------------------|----------------|--|-------------------------------------|-----------------------|----------------|
| Loom warp suspender. | William Squire. | New York. | Jan. 17, 1815 | Loom, weaving bolting cloth, mounting and using the harness. | Rollin White. | Williamstown, Vt. | April 1, 1843 |
| Loom warping. | Calvin Whitney. | Dedham, Mass. | Feb. 1, 1814 | Loom, weaving carpets*. | Erastus B. Bigelow. | Lancaster, Mass. | May 16, 1843 |
| Loom warping. | Thomas Siddall. | Germantown, Pa. | Mar. 27, 1815 | Loom, weaving carpets. | Erastus B. Bigelow. | Lancaster, Mass. | May 26, 1843 |
| Loom warping, regulating tension. | James Morgan. | Baltimore, Md. | April 5, 1831 | Loom, wire, harness. | Elisha Otis. | Cazenovia, N. Y. | Dec. 31, 1841 |
| Loom, water. | Erastus B. Bigelow. | Boston, Mass. | Mar. 12, 1845 | Loom, wire, harness. | Cazenovia, N. Y. | Cazenovia, N. Y. | April 12, 1838 |
| Loom, water. | Thomas Mussey. | Philadelphia, Pa. | Mar. 4, 1811 | Loom, wire, harness. | Ezra Brown. | Cazenovia, N. Y. | Oct. 30, 1838 |
| Loom, water. | Cyrus Shepard. | Philadelphia, Pa. | April 27, 1812 | Mule, self-acting. | Samuel S. Williams. | Roxbury, Mass. | Oct. 22, 1838 |
| Loom, water. | Brighberry Brown. | Albemarle, Va. | Mar. 31, 1814 | Nankeen, making, yellow & buff. | William Mason. | Taunton, Mass. | Oct. 3, 1846 |
| Loom, water. | Philo C. Curtis. | Paris, N. Y. | May 28, 1816 | Napping cloth. | Joseph B. Nones. | Philadelphia, Pa. | April 28, 1835 |
| Loom, water, steam. | Thomas Mussey. | New London, Conn. | June 10, 1817 | Napping cloth. | Samuel Mulliken. | Philadelphia, Pa. | Mar. 11, 1791 |
| Loom weaving. | S. Blydenburg and Hezekiah Henley. | Worcester, Conn. | Feb. 20, 1815 | Napping cloth. | William Burt. | Hartford, Ct. | June 23, 1797 |
| Loom weaving. | Phoenix Manufacturing Company, assignees of Benjamin Slingerland. | | | Napping cloth. | James Olney. | Hartford, Ct. | Mar. 1, 1813 |
| Loom, weaving, figured goods. | Horace Baker. | Patterson, N. J. | April 1, 1845 | Napping cloth. | Isaac Sanford. | Providence, R. I. | May 27, 1813 |
| Loom, weaving, figured goods. | John Smith. | North Salem, N. Y. | Aug. 30, 1837 | Napping cloth. | Daniel Merwin & Horace Kellogg. | Hudson, N. Y. | Oct. 28, 1814 |
| Loom, weaving, grth cloth. | Robert Lloyd. | Shafterstown, Pa. | April 22, 1835 | Napping cloth. | T. S. Barnum & E. Smith. | Litchfield, Conn. | April 4, 1815 |
| Loom, weaving, harness. | M. Chandler and E. Brown. | Cazenovia, N. Y. | Jan. 26, 1821 | Napping cloth. | William Durcan and J. Davidson. | Ackworth, N. H. | May 29, 1815 |
| Loom, weaving, improved in-panses. | John Standish. | Providence, R. I. | Nov. 11, 1830 | Napping cloth. | E. Starr and Nathan Coucut. | Sullivan town p N. Y. | Mar. 20, 1817 |
| Loom, weaving, knotted counter-panses. | Erastus B. Bigelow. | W. Boylston, Mass. | Jan. 6, 1838 | Napping cloth. | Bishop N. Parsons. | New York. | April 16, 1817 |
| Loom, weaving, stocks. | Conrad Kile. | Erie, Pa. | Sept. 18, 1835 | Napping cloth. | Levi & Jedediah Prescott. | New York. | Nov. 5, 1818 |
| Loom, weaving, webbing, tape. | Asa G. Bill and George Spalding. | Middletown, Conn. | Mar. 28, 1831 | Napping cloth. | Job Wilkerson. | Pittsburgh, Pa. | May 12, 1835 |
| Loom, weaver's harness, metal eyes for. | J. Conger and L. Woodbury. | Locke, N. Y. | Nov. 15, 1835 | Napping cloth. | Stephen Marsh. | Fairfax, Vt. | July 20, 1835 |
| Loom, weaver's harness for. | J. Thorp and W. G. Angel. | Providence, R. I. | Dec. 31, 1838 | Napping cloth. | M. R. Norris and L. Phillips. | Covington, N. Y. | Mar. 21, 1839 |
| Loom, weaving. | Charles Cooper. | Lebanon, Pa. | Nov. 4, 1808 | Napping cloth. | Zachariah Allen. | Providence, R. I. | Aug. 10, 1839 |
| Loom, weaving. | Gullen Whipple. | Douglas, Mass. | Feb. 11, 1836 | Napping cloth. | Zachariah Allen. | Providence, R. I. | Feb. 2, 1830 |
| Loom, weaving, chips. | Philip Bennett. | Rochester, N. Y. | June 8, 1806 | Napping cloth. | Joseph Groff. | Rapho, Pa. | Feb. 10, 1830 |
| Loom, weaving, cloth for stocks. | Conrad Kile. | Philadelphia, Pa. | Oct. 11, 1836 | Napping cloth. | Thomas Hurd & Jesse Fox. | Lowell, Mass. | June 23, 1830 |
| Loom, weaving, coverlets. | E. Meily, jr., J. Millinger, and S. Millinger. | Lebanon, Pa. | Mar. 1, 1834 | Napping cloth. | John J. Jett. | Dudley, Mass. | Dec. 30, 1830 |
| Loom, weaving, feathered cloth. | Jon. and Rozanna Sizer. | New London, Conn. | Oct. 21, 1812 | Napping cloth. | Eliakim Benham. | Roxbury, Mass. | Jan. 22, 1833 |
| Loom, weaving, figured cloth. | George Dettereich and J. Conger. | Tompkins co. N. Y. | Mar. 12, 1831 | Napping cloth. | Reuben Daniels. | Woodstock, Vt. | June 26, 1835 |
| Loom, weaving. | David Farrior and D. P. J. Murphy. | Aberfool, Alabama. | Dec. 4, 1843 | Napping cloth. | Stephen Marsh. | Jericho, Vt. | Jan. 11, 1836 |
| Loom, weaving, figured fabrics. | Clinton Gilroy. | New York, N. Y. | April 15, 1843 | Napping cloth. | Benjamin Swazey. | Mount Vernon, Vt. | Aug. 8, 1837 |
| Loom, weavers' for working any number of heddles. | Gavin McCrae. | Baltimore, Md. | Oct. 18, 1843 | Napping cloth, and brushing. | John Bryan and S. D. Fuller. | Mendam co., N. J. | April 4, 1830 |
| Loom, weaving, counterpanes, &c., manner of mounting the fabric. | Erastus B. Bigelow. | Lancaster, Mass. | May 30, 1842 | Napping cloth, and carding. | Jos. A. Christie. | Elizabethtown, N. J. | Jan. 24, 1816 |
| Loom, weaving fish nets. | Jeremiah Wilbour, assignee of Clinton Gilroy. | New York, N. Y. | Mar. 12, 1842 | Napping cloth, called cross napping machine. | John Taylor and John Smith. | New Lebanon, N. Y. | May 4, 1842 |
| Loom, weavers' harness, wire heddles for. | Levi Van Hoesen. | New Haven, Conn. | Oct. 7, 1842 | Napping cloth, shearing and brushing. | John J. Bryant. | Andover, N. H. | Sept. 2, 1818 |
| Loom, weavers' harness, wire heddles for. | Abraham Howe and Sidney S. Grannis. | Morrisville, N. Y. | Sept. 30, 1841 | Napping cloth, and steaming. | S. R. Parkhurst. | Providence, R. I. | June 24, 1834 |
| Loom, weaving figured cloths, jacquard machinery for. | Abraham Howe and Sidney S. Grannis. | Morrisville, N. Y. | Oct. 11, 1841 | Napping cloth, teasing & brushing. | John Taylor. | Waltham, Mass. | Oct. 28, 1815 |
| Loom, weaving, figured damask hair-seating. | Alexander Calderhead. | Philadelphia, Pa. | Feb. 3, 1841 | Napper, metallic. | Samuel Duncanson. | Northampton, N. Y. | Jan. 21, 1838 |
| Loom, weavers' shuttles. | Samuel Ross. | Camden, N. J. | Sept. 18, 1841 | Napper, teasing cloth. | John M. Pratt. | Dudley, Mass. | Oct. 3, 1838 |
| Loom, weaving. | Roswell Douglass, assignee of J. Coburn. | Lowell, Mass. | Mar. 12, 1842 | Napper, teasing cloth. | James Beckwith. | Westmoreland, N. Y. | Mar. 29, 1817 |
| | Benjamin W. and Horace Hendrick. | Woonsocket Falls, R. I. | May 12, 1842 | Napper, teasing cloth. | Aaron Foster. | Lyme, Conn. | May 16, 1817 |
| | | | | Net or seine making machine. | John McCullen. | Poultney, Vt. | Nov. 25, 1818 |
| | | | | Oakum, machinery for manufacture of. | Thaddeus, Henry and Daniel Tibbals. | Whitestown, N. Y. | Aug. 24, 1821 |
| | | | | Oakum, making. | James Tibbals. | Baltimore, Md. | June 27, 1846 |
| | | | | Oakum, picking. | Daniel French. | Chatham, Vt. | July 8, 1843 |
| | | | | Oakum, picking. | Michael Morrison. | Haddam, Ct. | Feb. 8, 1839 |
| | | | | Oakum, picking. | Daniel Rider. | Middletown, Conn. | Oct. 9, 1805 |
| | | | | Oakum, picking. | E. Waterhouse. | New Bedford, Mass. | Feb. 14, 1806 |
| | | | | Oakum, picking. | Ebenezer Cook. | New York. | April 26, 1808 |
| | | | | | | Gardiner, Maine. | April 24, 1826 |
| | | | | | | Haddam, Conn. | July 9, 1832 |

* Reissued June 28, '35. † Antedated May 1, '42. ‡ Date of Eng. pat. Nov. 12, '39. ¶ Reissued May 30, '42.

* Antedated May 1, 1842. † Antedated May 1, 1843.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|-------------------------------------|---------------------|----------------|
| Oakum, picking. | Ebenzer Cook & Sheldon Usher | Haddam, Conn. | June 7, 1834 |
| Oakum, picking. | Hiram Burnham | Boston, Mass. | Oct. 5, 1838 |
| Oakum, picking, combination of machinery for. | Ono Allen | Tewksbury, Mass. | July 16, 1842 |
| Oakum and hair, picking. | Jno. Stanbury & Wm. Ridgway, jr. | Baltimore, Md. | Jan. 17, 1842 |
| Oil cloth, drying. | R. B. Lewis | Hallowell, Maine | June 25, 1836 |
| Oil cloth, manufacture. | Daniel Sampson | Winthrop, Pa. | May 30, 1837 |
| Oil cloth, manufacture. | Isaac Maccuauley | Philadelphia, Pa. | April 4, 1825 |
| Oil silk, manufacture. | Deborah Powers, admix of Wm. Powers | Lausingsburg, N. Y. | Feb. 18, 1832 |
| Painting cloth. | Ralph Hodgson | New York. | Feb. 1, 1793 |
| Paper, &c., applying paste or sizing to sheets of &c., in the process of making cards, &c. | Otis Ferrin | Lausingsburg, N. Y. | Nov. 28, 1831 |
| Paper, books, &c., machine for cutting. | David H. Gilbert | Dorchester, N. Y. | April 11, 1842 |
| Paper, brown, from beach grass. | Joseph Woodhouse | Ossego, N. Y. | May 30, 1835 |
| Paper, cane hemp, making. | Isaac Sanderson | Milton, Mass. | Feb. 22, 1838 |
| Paper, carbonated, for multiplying writings. | B. C. Smith | Burlington, N. J. | Nov. 21, 1843 |
| Paper, cloth, &c., staining and printing. | Joseph Harishorne | Philadelphia, Pa. | April 20, 1810 |
| Paper, cutting machine. | Benjamin Mestayer | New York. | June 28, 1815 |
| Paper, cutting machine. | John McClinic & Geo. Faber | Chambersburg, Pa. | Dec. 18, 1825 |
| Paper, cutting machine. | Francis B. Howell | Lockport, Ohio | May 21, 1830 |
| Paper, cutting & trimming books. | John Shagert | Quincy, Pa. | Dec. 14, 1830 |
| Paper, cutting and trimming the edges. | Edward Fine | Troy, N. Y. | July 20, 1831 |
| Paper, cutting and trimming in the rear. | Frederick J. Auslin | New York. | June 16, 1841 |
| Paper, cutting and trimming in the rear. | Jonas Bateman | Harvard, Mass. | Mar. 12, 1834 |
| Paper, cylinders for drying. | John Amos | Springfield, Mass. | Feb. 28, 1834 |
| Paper, cylinders for drying. | John Amos | Springfield, Mass. | Feb. 28, 1834 |
| Paper, dry. | H. P. Howr | Shirley, Mass. | Feb. 28, 1834 |
| Paper, engine. | Isaac Santerson | Milton, Mass. | Sept. 20, 1836 |
| Paper, engine regulator. | Shirley, Mass. | Shirley, Mass. | Mar. 12, 1836 |
| Paper, finishing. | William Dickinson | Worcester, Mass. | Sept. 3, 1840 |
| Paper, finishing. | John M. Hollingsworth | Braintree, Mass. | Dec. 31, 1838 |
| Paper, hangings, printing. | Clark Rice | Watertown, N. Y. | April 26, 1834 |
| Paper, hangings, printing. | Irah White & L. Gale | Newberg, Vt. | Feb. 28, 1827 |
| Paper, hot pressing. | Thomas Gilpin | Philadelphia, Pa. | June 25, 1830 |
| Paper, leather. | Peter Force | Washington, D. C. | Aug. 22, 1822 |
| Paper, on machines, manufacturing | Hez. Steele | Hudson, N. Y. | Sept. 8, 1813 |
| Paper, machine for prepar'g top, &c. | Francis Bailey | Salisbury, Pa. | July 31, 1809 |
| Paper, machine for separating sand, &c., from pulp, in the manufacture of | Ephraim F. Blank and Thomas Blank | New York. | Feb. 16, 1830 |
| Paper, making | Richard Waterman & Geo. W. Annis | Providence, R. I. | Aug. 30, 1828 |
| Paper, making | John Amos | Springfield, Mass. | Feb. 20, 1835 |
| Paper, making | Abm. Frost | Springfield, Mass. | Mar. 19, 1804 |
| Paper, making | Wm. Bishop | Coventry, Conn. | Dec. 31, 1845 |
| Paper, making | John Bidus | Pennsylvania. | Mar. 31, 1794 |
| Paper, making | Cyros Austin | New Jersey | Dec. 14, 1798 |
| Paper, making | Robert R. Livingston | New York | Oct. 28, 1799 |
| Paper, making | Thomas Langstroth | Bucks county, Pa. | May 1, 1804 |
| Paper, making | Charles Kinsey | Essex, N. J. | May 8, 1807 |
| Paper, making | Thomas Gilpin | Philadelphia, Pa. | Dec. 24, 1816 |
| Paper, making | John B. Pignatelli | New York | Dec. 2, 1819 |
| Paper, making | John Amos | Springfield, Mass. | May 14, 1822 |
| Paper, making | Isaac Burbank | Worcester, Mass. | Sept. 8, 1824 |

* Antedated Dec. 16, 1840. † Reissued Oct. 25, 1832.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|--|--------------------|----------------|
| Paper, making. | Gardiner Burbank | Worcester, Mass. | April 12, 1826 |
| Paper, making. | Andrew Sprague and Nich. A. Sprague | Fredonia, N. Y. | Oct. 31, 1828 |
| Paper, making. | Joseph Truman | Bridgeport, Pa. | Feb. 28, 1834 |
| Paper, making. | Charles Forbes | East Hartford, Ct. | Feb. 20, 1836 |
| Paper, making.* | Wm. & Abij. L. Knight & Edward F. Condit | Whippany, N. J. | Sept. 25, 1839 |
| Paper, making. | John M. and Lyman Hollingsworth. | Boston, Mass. | Dec. 4, 1843 |
| Paper, making, agitator. | Reuben Fairchild | Trumbull, Conn. | May 4, 1859 |
| Paper, making from corn husks. | Burgess Allison & Jno. Hawkins | New Jersey. | Dec. 30, 1862 |
| Paper, making card. | Edward L. Perkins | Boston, Mass. | July 10, 1840 |
| Paper, making, ruling and cutting at one operation. | John Amos | Springfield, Mass. | July 31, 1840 |
| Paper, making from cutters' shavings. | Joseph Condit, jr. | New Jersey. | Dec. 28, 1801 |
| Paper, making, filtering for. | Thomas Trench | Ithaca, N. Y. | May 26, 1832 |
| Paper, making, from the flat press. | Marsden Haddock | New York. | July 17, 1828 |
| Paper, making, from pelts. | John McThorndike | New York. | Mar. 7, 1814 |
| Paper, making, from rags, whitening straw. | John W. Cooper | Wash'g'town p. Pa. | Feb. 7, 1829 |
| Paper, making, from sea grass. | Elisha H. Collier | Plymouth, Mass. | April 15, 1828 |
| Paper, making, from sea weed. | Samuel Green | New London, Conn. | Feb. 15, 1809 |
| Paper, making, from straw, & c. | William Magaw | Meadville, Pa. | Mar. 8, 1838 |
| Paper, making, top press roller for. | Mason Hunting | Waterbury, Mass. | Oct. 20, 1838 |
| Paper, manufacturing. | Solomon Stimpson | Newbury, Vt. | Mar. 12, 1832 |
| Paper, manufacturing, for covered buildings. | Arthur Varnham | London, England. | Aug. 9, 1845 |
| Paper, manufacturing, from wood | Frederick A. Taft | Dedham, Mass. | May 11, 1832 |
| Paper, manufacturing, from wood | Lewis Wooster and J. B. Holmes | Meadville, Pa. | Aug. 3, 1830 |
| Paper, mark of opacity in. | John Reich and Edw. Star. | Philadelphia, Pa. | May 11, 1816 |
| Paper, moulds. | John Carnes | Delaware | April 11, 1793 |
| Paper, polishing. | Phares Barnard | Whitestown, N. Y. | July 7, 1809 |
| Paper, polishing machine. | George Bird | Walpole, Mass. | April 11, 1833 |
| Paper, preparing husks to make. | William Cooledge | Boston, Mass. | April 18, 1868 |
| Paper, press, cylinder, hot & cold. | Homer Holland | Westfield, Mass. | Aug. 13, 1838 |
| Paper, sand, glass, or emery. | Asahel H. Jervis and Thomas Trench | Ithaca, N. Y. | Nov. 6, 1832 |
| Paper, sizing. | Edmund Morris | Philadelphia, Pa. | Sept. 14, 1844 |
| Paper, sizing. | John Amos | Springfield, Mass. | Sept. 1, 1832 |
| Paper, sizing. | Edmund Blake | Alstead, N. H. | Nov. 19, 1833 |
| Paper, sizing | W. W. Wilson and Charles Dickerman | Westfield, Mass. | Aug. 3, 1839 |
| Paper, sizing | John Amos | Springfield, Mass. | Aug. 1, 1837 |
| Paper, trimming machine. | Loren D. Brown | Lecc, Mass. | Mar. 4, 1842 |
| Paper, trimming machine. | ParkeShee | Philadelphia, Pa. | Feb. 7, 1807 |
| Paper, vats, heating pulp in. | John McClinton | Chambersburg, Pa. | Mar. 31, 1827 |
| Paper, for walls. | Joseph Robeson | Montgomery, Pa. | May 22, 1816 |
| Paper, water marks | James P. Howland and Alfred Griswold | Muncey, Pa. | Aug. 10, 1833 |
| Pasteboard, &c., manufacturing. | Jac. Perkins and Thomas Gilpin | Philadelphia, Pa. | Dec. 16, 1816 |
| Paste paper, for band-boxes. | Frederick A. Taft | Dedham, Mass. | July 20, 1831 |
| Picker, cotton. | Isaac Sanderson | Milton, Mass. | May 15, 1830 |
| Picker, and lap machine. | J. Pennell & H. Maxon | Barbourville, Va. | Oct. 10, 1838 |
| Picker, and spreading cotton. | Jesse Whitehead | Godwinville, N. J. | July 22, 1833 |
| Picker, wool. | John C. Wheaton | Northbridge, Mass. | July 30, 1832 |
| Picker, wool. | Michael Morrison | Boston, Mass. | Aug. 15, 1811 |
| Picker, wool and cotton. | Bern Brown | Exeter, R. I. | Sept. 9, 1822 |
| Picking and breaking wool. | Ephraim Raymond | Norton, Mass. | Jan. 18, 1812 |
| Picking and breaking wool. | John Shly | Augusta, Ga. | Oct. 27, 1836 |

* Disclaimer May 13, 47. † Reissued May 23, 28, Feb. 19, '30. ‡ Reissued Oct. 22, '40. § Antedated Sep. 4, '41.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|---|----------------------|----------------|
| Plates, for pressing woollen cloths | Volkert Vedder. | Amsterdam, N. Y. | Feb. 6, 1811 |
| Printing, calico | Alexander Boyd. | Providence, R. I. | April 22, 1845 |
| Pulp, dresser | Elihu H. Thomas and Nathan Woodcock. | Brattleborough, Vt. | Aug. 11, 1850 |
| Pulp, dresser | Coleman Sellers. | Philadelphia, Pa. | June 6, 1852 |
| Pulp, preparing and dressing | John Ames. | Springfield, Mass. | Sept. 1, 1853 |
| Pulp, sifter | Tyringham, Mass. | Newbury, Vt. | Jan. 31, 1833 |
| Pulp, strainer | James Sawyer. | Chester county, Pa. | Dec. 31, 1839 |
| Pulp, washing | Francis Gaucher. | Dorchester, Mass. | April 12, 1833 |
| Pulp dressing, of which paper is made | Nathaniel Hebard. | Windsor, Conn. | Dec. 27, 1839 |
| Rags, boiling and washing for the manufacture of paper | George Spafford. | Windsor, Conn. | Sept. 2, 1840 |
| Rags, cleaning* | William Debit. | East Hartford, Conn. | Jan. 13, 1838 |
| Rags, cleaning | George Carrel. | Manchester, Conn. | July 27, 1831 |
| Rags, cleaning | George Carrel. | Manchester, Conn. | Feb. 7, 1832 |
| Rags, cleaning | William Debit. | Hartford, Conn. | July 1, 1836 |
| Rags, cleaning and dusting | Samuel E. Foster. | Brattleborough, Vt. | June 1, 1832 |
| Rags, cleaning machine for | James Phelps. | West Sutton, Mass. | Nov. 24, 1843 |
| Rags, cutting | Moses Y. Beach. | Springfield, Mass. | Oct. 11, 1838 |
| Rags, dusting | E. Bart and G. Carriel. | Manchester, Conn. | Nov. 23, 1836 |
| Rags, dusting | Enoch Burt. | Manchester, Conn. | Sept. 14, 1838 |
| Rags, dusting and tearing | Henry Clark and William Albertson. | New London, Conn. | Sept. 19, 1838 |
| Rags, preparing | Benjamin Cox. | Northampton, Mass. | Mar. 28, 1818 |
| Rags, washing | John Ames. | Springfield, Mass. | April 6, 1831 |
| Rags, washing | D. Ames, jr. and John Ames, assignees of Samuel Eckstein. | Philadelphia, Pa. | June 13, 1831 |
| Rags, washing | Robert Carter. | Elkton, Md. | Feb. 23, 1838 |
| Reel for chalk lines | Gerard Sickles. | Middletown, Conn. | Dec. 31, 1839 |
| * Reeling, spinning, and twisting silk | Jacob Pratt. | Sherburne, Mass. | Oct. 12, 1839 |
| Ribbons, smoothing and gazing | Charles Cromwell. | New York | Jan. 27, 1817 |
| Rollers, calendaring, heating, for gazing | J. Bringham and T. Keyes, jr. | W. Boylston, Mass. | April 1, 1856 |
| Rollers, covering, for sizing | Evert Williams. | Stratford, N. H. | April 13, 1852 |
| Rolling, vibratory, for cotton or wool. | Jesse Hopkins. | Strasburg, Pa. | Jan. 14, 1854 |
| Ropes, machinery for laying | S. & James A. Bazin. | Canton, Mass. | Feb. 28, 1844 |
| Ropes, making | Charles Durfee, assignee of Edward S. Townsend. | Palmyra, N. Y. | Feb. 28, 1845 |
| Sand paper | Isaac Fisher, jr. | Springfield, Vt. | June 14, 1834 |
| Sand paper | Isaac Fisher, jr. | Springfield, Vt. | June 14, 1834 |
| Sand paper | Isaac Fisher, jr. | Springfield, Vt. | June 14, 1834 |
| Sand paper, softening | Isaac Fisher, jr. | Springfield, Vt. | June 14, 1834 |
| Sewing machine | Elias Howe, jr. | Cambridge, Mass. | Sept. 10, 1846 |
| Shearing cloth | Periah Swift. | Washington, N. Y. | May 25, 1806 |
| Shearing cloth | Russell Dorr. | Kindenhook, N. Y. | June 8, 1807 |
| Shearing cloth | Enoch Burt. | Princeton, N. J. | June 23, 1807 |
| Shearing cloth | Shimpton, Stewart, E. Hovey, and James Henderson. | Pittstown, N. Y. | June 21, 1808 |
| Shearing cloth | David Dewey. | Poultney, Vt. | June 27, 1809 |
| Shearing cloth | Eben Sprague. | Danbury, Conn. | May 9, 1810 |
| Shearing cloth | Heenan Matthews. | Delaware. | May 15, 1810 |
| Shearing cloth | Beriah Swift. | New York | May 24, 1810 |
| Shearing cloth | Erza Wilmarth. | Romey, Mass. | Feb. 28, 1811 |
| Shearing cloth | Benjamin Cummings. | Palmer, Mass. | March 2, 1811 |
| Shearing cloth | George C. Kellogg. | New Hartford, Conn. | March 4, 1811 |
| Shearing cloth | Jesse Mollenaux. | Hemstead, N. Y. | April 28, 1811 |
| Shearing cloth | Eleazer Hovey. | Canaan, N. Y. | May 2, 1811 |
| Shearing cloth | Stephen Treadwell. | Reading, Conn. | April 27, 1812 |

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|---|-----------------------|----------------|
| Shearing cloth | William Stillman. | Westerly, R. I. | June 11, 1812 |
| Shearing cloth | Walter Kennedy. | Frankfort, Ky. | June 19, 1812 |
| Shearing cloth | George Bostwick. | Brookfield, Conn. | Sept. 28, 1812 |
| Shearing cloth | George Booth. | Poughkeepsie, N. Y. | Oct. 13, 1812 |
| Shearing cloth | Isaac Sanford. | Providence, R. I. | Mar. 26, 1814 |
| Shearing cloth | Beriah Swift. | Washington, N. Y. | July 1, 1814 |
| Shearing cloth | C. H. Orth and Frederick Strolin. | Stuebenville, Ohio. | Oct. 11, 1814 |
| Shearing cloth | Horace Osborne and William L. Frazer. | Fredericktown, Md. | April 25, 1816 |
| Shearing cloth | John D. Smith. | Fredericktown, Md. | May 24, 1816 |
| Shearing cloth | Eliphalet Remington. | Frankfort, N. Y. | Aug. 13, 1817 |
| Shearing cloth | William Stillman. | Westerly, R. I. | Jan. 17, 1818 |
| Shearing cloth | David Dewey. | Rudland county, Vt. | Mar. 16, 1818 |
| * Shearing cloth | Seth Parsons. | Hosack, N. Y. | March 2, 1819 |
| Shearing cloth | Elithu Hotchkiss and Aaron Jaque. | Brattleborough, Vt. | Dec. 15, 1819 |
| Shearing cloth | Zach. Cary. | Oxford, Maine. | Feb. 20, 1821 |
| Shearing cloth | Erza Head. | Norridgewock, Me. | Dec. 4, 1822 |
| Shearing cloth | Beriah Swift. | Washington, N. Y. | Feb. 7, 1824 |
| Shearing cloth | William Hovey. | Worcester, Mass. | Dec. 17, 1824 |
| Shearing cloth | James Collins. | Anson, Maine. | March 6, 1827 |
| Shearing cloth | Isaac Kellogg and Geo. C. Kellogg. | New Hartford, Conn. | April 7, 1828 |
| * Shearing cloth | Reuben Daniels. | Woodstock, Vt. | May 13, 1834 |
| Shearing cloth | John Davidson. | Springfield, Vt. | May 29, 1834 |
| Shearing cloth, &c., diamond figure | Charles P. Barber. | Watervliet, N. Y. | Mar. 10, 1843 |
| Shearing cloth, and laying the nap | Lemuel Dickerman. | Scaticoke, N. Y. | July 18, 1812 |
| Shearing cloth, revolving shears. | James Collins. | Anson, Maine. | June 10, 1827 |
| Shearing cloth, shears for. | Samuel A. Britt. | Cazenovia, N. Y. | Aug. 10, 1829 |
| Shearing cloth, by wheel of knives | Samuel G. Dorr. | Albany, N. Y. | Oct. 30, 1792 |
| Shearing machine. | Silas Hills. | Hudson, N. Y. | Oct. 92, 1813 |
| Shearing machine. | William Stillman. | Westerly, R. I. | April 28, 1815 |
| Shearing machine, horizontal. | Thomas Blanchard. | Sutton, Mass. | May 4, 1813 |
| Shearing machine, or shears with curved edges | Samuel Fry. | New York. | Nov. 20, 1823 |
| Shearing machine, vibrating | David Dewey. | Poultney, Vt. | Dec. 7, 1814 |
| Shearing machine, zigzag | Edmund Durrin. | Weatherfield, Vt. | Jan. 21, 1814 |
| Shearing naps from woollen cloth. | Merritt Hurd. | Augusta, N. Y. | Dec. 7, 1829 |
| Shearing saturates and other woollen goods. | James Pitts. | Smithfield, R. I. | Oct. 17, 1842 |
| Shearing wool and cloths. | Samuel Kellogg. | Vermont. | Jan. 31, 1795 |
| Shearing wool. | Eb. Stowell. | Worcester, Mass. | April 26, 1808 |
| Shearing woollen cloths. | Liberty Stanley. | Massachusetts. | June 25, 1803 |
| Shearing woollen cloths. | Friend B. Kellogg. | Marlborough, Mass. | Nov. 22, 1805 |
| Shearing woollen cloth. | Reuben Daniels. | Woodstock, Vt. | April 7, 1838 |
| * Shearing woollen cloth. | Seth Parsons. | Hoosic Falls, N. Y. | Nov. 25, 1838 |
| Silk finishing, machinery for. | Thomas White. | Mount Pleasant, O. | Jan. 30, 1841 |
| Silk reel, driving with foot. | Aaron Clarke. | Greenwich, Conn. | Dec. 20, 1841 |
| Silk, reeling from the cocoons, machinery for. | George Heritage. | Chester town, Md. | Dec. 19, 1840 |
| Silk reel. | Eliphalet Snow. | Mansfield, Conn. | Mar. 16, 1832 |
| Silk reel. | Charles G. Greene. | Windsor, Vt. | May 31, 1832 |
| Silk, reeling. | Jonathan Dennis, jr. | Portsmouth, R. I. | Dec. 28, 1838 |
| Silk, reel for reeling. | A. B. Jones, assignee of William H. Jones | Hartford, Conn. | Feb. 12, 1842 |
| Silk reels | James S. Harris. | Poultney, Vt. | July 30, 1844 |
| Silk steaming, machinery for | George Heritage. | Chester town, Md. | Nov. 26, 1840 |
| Silk twisting | Gammaliel Gay. | Philadelphia, Pa. | June 7, 1839 |
| Silk, throwing or twisting | Lucillus H. Mosely. | Poughkeepsie, N. Y. | May 9, 1835 |
| Silk, unwinding | Gammaliel Gay. | Poughkeepsie, N. Y. | Aug. 17, 1835 |
| * Silk, unwinding. | Adam Brooks. | South Scituate, Mass. | June 20, 1836 |
| Silk, winding, gump or cord. | Adam Brooks. | South Scituate, Mass. | June 20, 1836 |
| Silk worms, cocconery for | J. B. Tillinghast. | Huron, Ohio. | Nov. 40, 1841 |

* Reissued August 22, 1834. † Reissued July 1, 1836. ‡ Reissued October 7, 1837. § Antedated May 25, 1838.

* Reissued July 21, 1855. † Reissued July 1, 1836.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|---|---|------------------------|----------------|
| Silk-worms, feeding of, apparatus for | Edmund Morris | Burlington, N. J. | June 16, 1841 |
| Silk-worms, feeding, | John W. Gill | Mount Pleasant, Ohio | May 12, 1845 |
| Sized paper, machine for drying, .. | Joshua Norton, jr. | Boston, Mass. | April 25, 1846 |
| Speeder fliers | Erasus E. Bigelow | Boston, Mass. | Feb. 24, 1845 |
| Spindle, mode of steadying the live* | Patterson, N. J. | Patterson, N. J. | Nov. 21, 1845 |
| Spinning, accelerated | Leonard Norcross | Dixfield, Maine | June 15, 1855 |
| Spinning, bobbins, method of operating in machinery for spinning fibrous substances | Francis McCully, jr. | Patterson, N. J. | Oct. 30, 1844 |
| Spinning candle wick | Shalor Ives | Chillicothe, Ohio | May 17, 1850 |
| Spinning cap spinner, mode of driving bobbins in | Charles Danforth | Patterson, N. J. | April 21, 1842 |
| Spinning, cap spinner, oiling the spindles or tubes of | Charles Danforth | Patterson, N. J. | April 21, 1842 |
| Spinning, cop spreader for | Trumas Estor & Warren Dutcher | Bennington, Vt. | July 26, 1839 |
| Spinning cotton | William Pollard | Philadelphia, Pa. | Dec. 30, 1791 |
| Spinning cotton | Nehemiah Giles | Fitchburg, Mass. | Nov. 19, 1812 |
| Spinning cotton | L. Bissell, J. Hinman, and L. C. Hinman | Hartwick, N. Y. | June 19, 1813 |
| Spinning cotton | Benoni Gains | Osego, N. Y. | July 17, 1815 |
| Spinning cotton | L. Bissell, L. C. Hinman, and S. Wilson | Attleborough, Mass. | Feb. 6, 1823 |
| Spinning cotton | Elisha Fuller | Mill creek, Tenn. | Sept. 20, 1823 |
| Spinning cotton | William Bryant | Providence t'nsip, Pa. | June 2, 1824 |
| Spinning cotton | John Brown | Stonington, Conn. | Nov. 13, 1831 |
| Spinning cotton | John L. Eddy | Killingly, Conn. | Nov. 19, 1833 |
| Spinning cotton | Welcome A. Potter | Cranston, R. I. | Dec. 16, 1833 |
| Spinning cotton | Asabel M. Lanpher | Killingly, Conn. | Mar. 19, 1834 |
| Spinning cotton | Welcome A. Potter | Cranston, R. I. | Mar. 23, 1834 |
| Spinning cotton | William P. Brynton | New York city | June 25, 1836 |
| Spinning cotton bagging | John C. Dewes | Mason county, Ky. | Dec. 24, 1827 |
| Spinning cotton, frame for | Paul Moody | Boston, Mass. | May 6, 1819 |
| Spinning cotton, frame for | William Bald, jr. | Providence, R. I. | Oct. 19, 1821 |
| Spinning cotton, frame for | Paul Moody | Boston, Mass. | Feb. 1, 1830 |
| Spinning cotton seine, twine | Thomas Rice | Petersburg, Va. | Oct. 1, 1824 |
| Spinning cotton and silk | Samuel P. Mason | Killingly, Conn. | Jan. 17, 1824 |
| Spinning cotton twine | Alison Pond | Petersburg, Va. | April 21, 1829 |
| Spinning cotton, water frame for .. | Stephen Clemens | Hartford, Vt. | Mar. 16, 1812 |
| Spinning cotton and wool | G. Brewster, G. Trumbull, and J. Mathes | Barre, Vt. | Jan. 16, 1812 |
| Spinning cotton and wool | Joseph Hathaway | Poultney, N. Y. | July 24, 1826 |
| Spinning cotton and wool | John W. Wheeler | Galway, N. Y. | Oct. 11, 1828 |
| Spinning cotton and wool | Levi Rice | Milburn, Mass. | Nov. 14, 1831 |
| Spinning cotton yarn | Peleg Arnold | Coventry, Conn. | Aug. 1, 1818 |
| Spinning cotton yarn | Luther Crane | Ware, N. H. | Mar. 26, 1825 |
| Spinning cotton yarn | John Thorpe | Providence, R. I. | Nov. 11, 1830 |
| Spinning cotton yarn, and thread .. | John A. Bradshaw | Foxborough, Mass. | Jan. 18, 1833 |
| Spinning cotton yarn, and roping, for condensing | James Chesters | Cumberland, R. I. | April 16, 1834 |
| Spinning cotton wool | Jacob Graves | New Ipswich, N. H. | Sept. 1, 1843 |
| Spinning, double spreader or fly frame used in roving cotton | Amanda N. Wilcox | Milton, N. Y. | May 8, 1843 |
| Spinning, driving bobbins | William C. Duvoll | Fall River, Mass. | May 19, 1843 |
| Spinning, filling, and slack twisted yarn | William Baxter | Fatterson, N. J. | Sept. 20, 1845 |
| Spinning flax, cotton, and silk | John Thorpe | Providence, R. I. | Nov. 25, 1828 |
| Spinning flax, cylindrical frame .. | John Bogardus | New York | May 25, 1830 |
| Spinning flax and hemp | William Griffin | New York | Jan. 11, 1812 |
| Spinning flax and hemp | George Parkinson | Philadelphia, Pa. | Mar. 17, 1791 |
| Spinning flax and hemp | Alpheus Webster | Greene county, N. Y. | Mar. 31, 1810 |
| Spinning flax and hemp | W. Hunt and W. Haskins | Martinsburg, N. Y. | June 22, 1826 |

* Antedated May 21, 1845.

MANUFACTURES.

WHEN ISSUED.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|--|--------------------|----------------|
| Spinning flax, reeling and spooling .. | Noel Jones | Madison co., N. Y. | Mar. 14, 1812 |
| Spinning, fliers | Samuel Leach | Waltham, Mass. | Feb. 20, 1836 |
| Spinning, flier and dead spindle for .. | Pinneus Stephens | Nashua, N. H. | April 20, 1844 |
| Spinning, fliers | Samuel Leach | Waltham, Mass. | May 6, 1836 |
| Spinning, fliers, boring, &c.—See Cases 2 | John Morse | Newton, Mass. | June 25, 1836 |
| Spinning, fliers, cotton yarn | Azariah Walton | Keene, N. Y. | Jan. 6, 1812 |
| Spinning, fliers, cotton yarn | Martin Newton | Fitchburg, Mass. | Sept. 28, 1812 |
| Spinning, fliers, cotton yarn | Nehemiah Giles | Fitchburg, Mass. | Nov. 19, 1812 |
| Spinning, fliers, for double speeders .. | Olis Pettee | Newton, Mass. | Mar. 26, 1834 |
| Spinning, fliers, flax and hemp | H. Evans & B. Churchill | Plymouth, Mass. | Sept. 26, 1838 |
| * Spinning, fliers, & spindles, cotton .. | Richard E. Yerkes | Philadelphia, Pa. | June 12, 1838 |
| Spinning, fliers, & spindles, cotton .. | John Hoarsh & Nathaniel James Wilson | Andover, Mass. | Dec. 28, 1838 |
| Spinning fliers for wheels | William Shotwell and Arthur Kimball | Monroe county, Ky. | Feb. 16, 1833 |
| Spinning hair of neat cattle | James Lang | New York | Nov. 4, 1813 |
| Spinning hemp, &c. | Moses Day | Greenock, Scotland | Jan. 16, 1834 |
| Spinning hemp, &c. | Nathaniel Foster | Roxbury, Mass. | June 9, 1836 |
| Spinning hemp and flax | John F. Chappins | Flemingsburg, Ky. | June 28, 1869 |
| Spinning hemp and flax | Daniel Treadwell | New York | Nov. 6, 1814 |
| Spinning hemp and flax | Andrew Caldwell | Boston, Mass. | Oct. 11, 1831 |
| Spinning hemp and other fibrous materials | Charles W. Brown | Lexington, Ky. | Aug. 20, 1835 |
| Spinning hemp, flax | Moses Day | Roxbury, Mass. | July 16, 1839 |
| Spinning hook, spinner and twist-er, whipping and rotary | John Thorpe | Roxbury, Mass. | June 24, 1839 |
| Spinning jenny | Cyrus Greenwood | N. Wrentham, Mass | Sept. 27, 1844 |
| Spinning jenny and billy | Emezer Smith | Wincchester, N. H. | Feb. 13, 1830 |
| Spinning jenny, vertical | James Matthews | Paris, N. Y. | Mar. 23, 1814 |
| Spinning machine | Jac. Alricks | Schenectady, N. Y. | May 9, 1826 |
| Spinning machine | Daniel Read | Wilmingon, Del. | Oct. 11, 1809 |
| Spinning machine | Sylvanus Baldwin and Elisha Town | Brookfield, N. Y. | Sept. 10, 1811 |
| Spinning machine | Alpheus Webster | Vermont | May 6, 1812 |
| Spinning machine | Burgess Allison | Greene co., N. Y. | Dec. 21, 1812 |
| Spinning machine | John Brown | Burlington, N. J. | Mar. 3, 1813 |
| Spinning machine | John Brown | Providence, R. I. | May 12, 1813 |
| Spinning machine | Sylvanus Baldwin | Providence, R. I. | Feb. 24, 1814 |
| Spinning machine | Zaccheus Wheeler | Boston, Mass. | Aug. 18, 1815 |
| Spinning machine | John Brown | Richmond, N. H. | July 18, 1816 |
| Spinning machine | C. Merrill, C. Batchelor, & S. King, jr. | Providence, R. I. | Aug. 11, 1821 |
| Spinning machine | D. Pool & A. Copeland | Lowville, N. Y. | July 3, 1824 |
| Spinning machine | H. Hunt & C. Bradish | Philadelphia, Pa. | Dec. 24, 1824 |
| Spinning machine | Sidney White | Lowville, N. Y. | Dec. 31, 1824 |
| Spinning machine | Samuel Slater | Wrentham, Mass. | Dec. 24, 1824 |
| Spinning machine | J. R. & J. B. Wheeler | Middletown, Vt. | April 4, 1825 |
| Spinning machine | J. R. & J. B. Wheeler | Kingsbury, N. Y. | May 26, 1825 |
| Spinning machine | Nathaniel Remington | Gatway, N. Y. | Nov. 3, 1826 |
| Spinning machine | Henry Wilson | Genova, N. Y. | April 9, 1827 |
| Spinning machine | John Thorpe | Providence, R. I. | July 13, 1827 |
| Spinning machine | John Thorpe | Providence, R. I. | Dec. 31, 1828 |
| Spinning machine | John Thorpe | Providence, R. I. | Jan. 23, 1829 |
| Spinning machine | John Thorpe | Providence, R. I. | Nov. 25, 1828 |
| Spinning machine | John Thorpe | Providence, R. I. | June 13, 1829 |
| Spinning machine | Warren Allen | New Haven, N. Y. | Aug. 15, 1829 |
| Spinning machine | Joseph B. Wheeler | Galway, N. Y. | Dec. 30, 1829 |
| Spinning machine | John Brown | Providence, R. I. | May 20, 1830 |
| Spinning machine | James Church, jr. | Hartford, Ct. | June 30, 1830 |
| Spinning machine | John Pearce | Yorkshire, N. Y. | May 20, 1830 |
| Spinning machine | Ethan Bowen | Providence, R. I. | July 13, 1830 |

* Reissued July 8, 1813. † Reissued Oct. 22, 1838. ‡ Reissued April 3, 1829.

| INVENTIONS OR DISCOVERIES. | PATENTEE. | RESIDENCE. | WHEN ISSUED. | INVENTIONS OR DISCOVERIES. | PATENTEE. | RESIDENCE. | WHEN ISSUED. |
|--|---|-----------------------|----------------|---|-----------------------------------|-----------------------|----------------|
| Spinning machine. | William Clarke. | Poulinery, N. Y. | Oct. 1, 1830 | Spinning, roping, cotton, &c., by hand | John Brown. | Providence, R. I. | Jan. 23, 1821 |
| Spinning machine, domestic. | John Morgan. | Manayunk, Pa. | May 14, 1836 | Spinning, roping, cotton and wool | John Brown. | Providence, R. I. | Aug. 8, 1812 |
| Spinning machine, domestic. | Elis. Herrick. | Albany, N. Y. | Aug. 17, 1840 | Spinning, roping, cotton and wool | William Whitehead. | Faterson, N. J. | April 11, 1825 |
| Spinning machine, domestic. | Elias Wood. | Lowville, N. Y. | Sept. 3, 1824 | Spinning, roping, cotton and wool | James Jones. | Manchester, England | May 16, 1835 |
| Spinning machine, domestic. | Laford Voten. | Schoharie, N. Y. | Nov. 28, 1826 | Spinning, roping, flax and hemp | George Brown. | Schaticoke, N. Y. | June 19, 1806 |
| Spinning machine, domestic. | Edward Fenny. | Adams, N. Y. | June 27, 1828 | Spinning, roping, or slubbing, woollen | Daniel Treadwell. | Boston, Mass. | Feb. 3, 1834 |
| Spinning machine, family. | Hiram F. Wheeler. | Springfield, Pa. | April 25, 1838 | Spinning, roping, & twisting cotton | Austin Steele. | Waterbury, Conn. | April 1, 1809 |
| Spinning machine, family, and bobbin winder. | J. Wat, F. A. Priest, and G. Freeman. | Jefferson co., Ohio. | May 20, 1826 | Spinning, roping, & twisting, from spinners. | William Whitehead, jr. | Patterson, N. J. | June 14, 1826 |
| Spinning machine, family, cotton. | William Jones. | Thornville, Ohio. | July 27, 1827 | Spinning, roping, and winding cotton | Wm. Fowler & Rich. M. Germond. | Union Vale, N. Y. | Nov. 24, 1824 |
| Spinning machine, family, and factory. | John Gill. | Plumb town, Pa. | Feb. 19, 1825 | Spinning, roping, wool | David Grieve. | Providence, R. I. | Sept. 18, 1818 |
| Spinning machine, family, wool. | Richard Woodsey. | Kortwright, N. Y. | May 13, 1825 | Spinning, roping, wool | Samuel Lerne. | Watertown, Mass. | Aug. 3, 1815 |
| Spinning machine, horizontal. | W. Ayres & J. Cochran. | Durham, Vt. | Oct. 6, 1815 | Spinning, roping, wool | J. R. & J. B. Wheeler. | Galway, N. Y. | Aug. 28, 1826 |
| Spinning machine, horizontal. | J. S. and B. J. Billings. | Moreau, N. Y. | Jan. 16, 1826 | Spinning, roping, wool and cotton | Oliver Barret, jr. | Schaticoke, N. Y. | Dec. 3, 1811 |
| Spinning machine, portable. | D. Hunt & S. Wheeler. | Knox, N. Y. | April 27, 1826 | Spinning, roping, wool and cotton | John Brown. | Providence, R. I. | July 22, 1819 |
| Spinning machine, portable. | Buggess Allison. | Philadelphia, Pa. | April 27, 1812 | Spinning, roping, wool and cotton | Z. Knox & W. Haskins. | Lowville, N. Y. | Aug. 16, 1824 |
| Spinning machine, and receiving rolls of wool. | Buggess Allison. | Burlington, N. J. | June 28, 1814 | Spinning, roping, wool and cotton | A. Patterson and F. Burdock. | Delaware co., N. Y. | Sept. 29, 1824 |
| Spinning machine, stop motion of the drawing frames. | Gilbert Brewster. | Norwich, Conn. | Mar. 13, 1824 | Spinning, roping, wool and cotton | Francis Burdock. | Kortwright, N. Y. | May 30, 1825 |
| Spinning machine, substitute for fier. | Lewis Cutting. | Lowell, Mass. | May 15, 1834 | Spinning, roving. | William Carmichael. | Sandlake, N. Y. | June 10, 1826 |
| Spinning mule, carriage for cotton | O. G. & N. Rogers. | Whitestown, N. Y. | Aug. 28, 1824 | Spinning, silk, &c. | George Addison and L. S. Stevens. | New York. | Oct. 10, 1829 |
| Spinning mule, cotton. | William Haworth. | Providence t'wp, Pa. | June 2, 1824 | Spinning silk, &c. | Adam Brooks. | Scituate, Mass. | June 29, 1833 |
| Spinning mule, drums. | Thomas Walker. | Chester county, Pa. | June 26, 1828 | Spinning silk, doubling & twisting | Harrison Holland. | Northampton, Mass. | Oct. 10, 1838 |
| Spinning mule, head. | J. Butterworth. | Philadelphia, Pa. | Dec. 20, 1828 | Spinning silk from cocoons, machinery for. | Jonathan Dennis, jr. | Portsmouth, R. I. | Dec. 28, 1838 |
| Spinning mule, self acting. | Henry Hopkins. | Providence, R. I. | Feb. 29, 1833 | Spinning, speeder for cotton roping counter-twist. | George Heritage. | Chestertown, Md. | Dec. 19, 1840 |
| Spinning mule, self operating. | James Smith. | Perth, Scotland. | June 27, 1836 | Spinning, speeder, cotton. | Jesse Whitehead. | Manchester, Va. | May 29, 1841 |
| Spinning, mule, self-acting for. | Ira and A. Gay. | Dunstable, N. H. | April 10, 1823 | Spinning, speeder, cotton roving. | Luman Parmelee. | Poughkeepsie, N. Y. | Aug. 29, 1833 |
| Spinning, mule, self-acting, billies, &c. | Dan Lapham, adm'r of Benj. Lapham, dec'd. | Adams, Mass. | Sept. 25, 1840 | Spinning, speeder, cotton, roving. | Samuel P. Mason. | Leesville, Conn. | June 24, 1830 |
| Spinning and quilting, with heads for. | William Mason. | Taunton, Mass. | Oct. 8, 1840 | Spinning, speeder, counter-twist. | William Mason. | Taunton, Mass. | May 4, 1838 |
| Spinning railway, drawing head for. | Richard Roberts. | Manchester, England | Oct. 11, 1841 | Spinning, speeder, double. | George Danforth. | Morton, Mass. | Sept. 2, 1834 |
| Spinning, regulating the drag of the yarn in the operation of. | Emory Russel. | Long Meadow, Mass | April 18, 1814 | Spinning, speeder, double, No. 1. | Paul Moody. | Boston, Mass. | April 3, 1819 |
| Spinning and reeling. | William B. Leonard. | Fishkill, N. Y. | Sept. 16, 1833 | Spinning, speeder, double, No. 2. | Jonathan Fish. | Medway, Mass. | Dec. 7, 1820 |
| Spinning, reeling. | Jesse Whitehead. | Manchester, Va. | June 16, 1842 | Spinning, speeder, double, No. 3. | Jonathan Fish. | Medway, Mass. | Dec. 7, 1820 |
| Spinning, reeling, and ring spinner. | Samuel McCawley & Geo. Caleb Shilliday & Geo. McCaston. | Fallston, Pa. | Dec. 2, 1834 | Spinning, speeder, double, No. 4. | Jonathan Fish. | Medway, Mass. | Dec. 7, 1820 |
| Spinning, roping. | Joseph Woodhull. | Shelbyville, Ky. | Oct. 24, 1816 | Spinning, speeder, double, No. 5. | Jonathan Fish. | Medway, Mass. | Dec. 7, 1820 |
| Spinning, roping, cotton. | Chesler, N. Y. | Chester, N. Y. | Nov. 14, 1826 | Spinning, speeder, double. | Paul Moody. | Walham, Mass. | Dec. 30, 1820 |
| Spinning, roping, cotton. | Laurel factory, Md. | Laurel factory, Md. | July 23, 1841 | Spinning, speeder, double. | William Moody. | Roston, Mass. | Feb. 19, 1821 |
| Spinning, roping, cotton. | Gideon Cornell. | Rensselaer co., N. Y. | July 22, 1812 | Spinning, speeder, double. | William Field. | N. Providence, R. I. | Oct. 6, 1835 |
| Spinning, roping, cotton. | William Bryant. | Davidson, co., Tenn. | April 29, 1816 | Spinning, speeder, double combi-nation. | Jonathan Fish. | Metway, Mass. | Dec. 7, 1820 |
| Spinning, roping, cotton. | Paul Moody. | Boston, Mass. | Jan. 19, 1821 | Spinning, speeder, double, winding cotton. | William Hines. | Covenry, R. I. | Feb. 6, 1819 |
| Spinning, roping, cotton. | Paul Moody. | Boston, Mass. | Feb. 19, 1821 | Spinning, speeder, double, coltspse, for cotton roping. | Gilbert Brewster. | Poughkeepsie, N. Y. | April 18, 1829 |
| Spinning, roping, cotton. | ShaShepard & C. Dean. | Boston, Mass. | Mar. 23, 1821 | Spinning, speeder, flter. | Peleg Arnold. | Killingly Centre, Ct. | Oct. 1, 1830 |
| Spinning, roping, cotton. | Asa Arnold. | Taunton, Mass. | Feb. 19, 1821 | Spinning, speeder, twisting. | Joseph C. Dyer. | Manchester, Eng. | Oct. 1, 1830 |
| Spinning, roping, cotton. | Gilbert Brewster. | N. Providence, R. I. | Mar. 23, 1821 | Spinning, spindle, and bobbin, for cotton. | Asa Jilson. | Dorchester, Mass. | May 27, 1815 |
| Spinning, roping, cotton. | Asa Whitman and Joel Baker. | Poughkeepsie, N. Y. | Mar. 28, 1827 | Spinning, spindle, cotton. | Wm. B. Leonard. | Fishkill, N. Y. | July 9, 1819 |
| Spinning, roping, cotton. | John A. Bradshaw. | Walpole, Mass. | July 20, 1831 | Spinning, spindle, cotton. | Benjamin Broadurd. | Oldham, N. J. | Jan. 14, 1827 |
| Spinning, roping, cotton. | Lacillie H. Moseley. | Foxborough, Mass. | Dec. 8, 1832 | Spinning, spindle, cotton. | Nathaniel Rider. | Dudley, Mass. | Nov. 3, 1832 |
| Spinning, roping, cotton. | Lewis Brewster, adm'r of Gilbert Brewster. | Lisbon, Conn. | Nov. 19, 1833 | Spinning, spindle, dead. | Henry G. Davis. | Northborough, Mass | Sept. 9, 1835 |
| Spinning, roping, cotton. | William Fowler. | Poughkeepsie, N. Y. | Dec. 17, 1834 | Spinning, spindle, diminishing friction. | R. R. Livingston. | Clermont, N. Y. | Aug. 4, 1791 |
| Spinning, roping, cotton, &c. | Charles Danforth. | Fishkill, N. Y. | Mar. 29, 1836 | | | | |
| | Sidney Whiting. | Faterson, N. J. | Feb. 18, 1841 | | | | |
| | | Franklin, Mass. | Nov. 17, 1834 | | | | |

* Antedated Feb. 29, '34. † Antedated Dec. 21, '42. ‡ Reissued Aug. 10, '36.

† Reissued Dec. 29, 1830.

MANUFACTURES.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|--|-------------------------------|----------------|
| Spinning wheel, small | Nathan Lewis | Canandaigua, N. Y. | Mar. 29, 1817 |
| Spinning wheel, wool | Gilbert Brewster | Norwich, Ct. | Feb. 27, 1834 |
| Spinning wicks | George Dickinson | New York | Feb. 21, 1838 |
| Spinning wheel | John Griggs | Ashtof, Ct. | Dec. 30, 1834 |
| Spinning wool | J. Corroll and Wm. P. Rogers | Harpersfield, Ohio | June 15, 1836 |
| Spinning wool | Benjamin Lapham | Queensbury, N. Y. | June 29, 1837 |
| Spinning wool | John Orndoff | Russelville, Ky. | Nov. 10, 1829 |
| Spinning wool | David S. Wooster | Sheldon, N. Y. | Feb. 14, 1831 |
| Spinning wool | Wm. W. Calvert, R. Southwick, & Alfred Messenger | Lowell, Mass. | Mar. 31, 1832 |
| Spinning wool* | Wm. Sykes and Geo. M. Conrath | Fredricktown, Md. | Mar. 10, 1834 |
| Spinning wool | Asa Campbell | Kingston, Pa. | June 19, 1834 |
| Spinning wool | J. Withered | Baltimore, Md. | Mar. 30, 1836 |
| Spinning wool | Isaac B. Hartwell | Northfield, Vt. | June 7, 1839 |
| Spinning wool by continued rotation | Gilbert Brewster | Norwich, Ct. | Mar. 13, 1824 |
| Spinning wool and cotton | Peter Peddleford | Lynn, N. H. | May 18, 1816 |
| Spinning wool and cotton | Jac. Sprinkel | Wythe, Va. | Aug. 23, 1816 |
| Spinning wool and cotton | Jac. Richardson | Scipio, N. Y. | Oct. 16, 1816 |
| Spinning wool and cotton | Wm. Brushnell and J. Alton | Harrisburg, Va. | Aug. 30, 1821 |
| Spinning wool and cotton | Francis Frice | New York | Oct. 5, 1824 |
| Spinning wool and cotton | A. S. Whitse and Joel Farnham | Troga, N. Y. | June 28, 1825 |
| Spinning wool and cotton | Seth Boyden | Foxborough, Mass. | Dec. 7, 1826 |
| Spinning wool and cotton | Seth Boyden | Foxborough, Mass. | Dec. 29, 1826 |
| Spinning wool and cotton | William Church | Birmingham, Eng. | June 11, 1827 |
| Spinning wool and cotton | Arthur Critchfield | Union township, O. | April 24, 1828 |
| Spinning wool and cotton | David Newburgh | Riley township, O. | April 27, 1832 |
| Spinning wool and cotton by hand | George W. Robinson | Providence, R. I. | Mar. 16, 1826 |
| Spinning wool and cotton by hand | Nathaniel Harris | Fairfield co., Ohio | Jan. 21, 1829 |
| Spinning wool and cotton, & hemp | Theodore T. Abbott | Greenland, N. H. | Feb. 26, 1828 |
| Spinning wool and cotton from the roll | William R. McCall | Vincennes, Ind. | May 12, 1828 |
| Spinning wool, and drawing | William Humphreys | Humphreysville, Ct. | Oct. 4, 1811 |
| Spinning wool, domestic | Laforl Totten | Schoharie, N. Y. | Nov. 13, 1824 |
| Spinning wool spinner, domestic | John Nelson | Lefferson, Ohio | Jan. 27, 1841 |
| Spinning wool and yarn | John Sharp | Whiteston, N. Y. | Mar. 13, 1822 |
| Spinning woollen roving | Edger M. Ticombe | Andover, Mass. | July 29, 1837 |
| Spinning woollen slubbing | Charles Atwood | Middletown, Ct. | Mar. 10, 1830 |
| Spools and bobbins | William Clegg | Norwich, Ct. | Feb. 24, 1830 |
| Spools and bobbins | Simeon Presbrey, jr. | Canton, Mass. | July 26, 1832 |
| Spools, frame | Etha Robinson | Augusta, Mass. | Mar. 16, 1816 |
| Stamping or painting on fabrics, design for | Spurkman & Kelsey | New York, N. Y. | July 25, 1846 |
| Straw bonnets, pressing | Preston Whiting | Hopkins, Mass. | June 11, 1819 |
| Straw bonnets, pressing | Eleanor Smith | Walpole, Mass. | July 15, 1830 |
| Straw bonnets, pressing | Simon Pettee | Foxborough, Mass. | Sept. 14, 1835 |
| Straw or chip hats, pressing | Samuel Prince | New York | Aug. 31, 1808 |
| Straw and Leghorn bonnets, &c., pressing | Otis Plimpton | Foxborough, Mass. | Dec. 28, 1832 |
| Straw, flat, cleaning—See Class 4 | Daniel Atherton | Providence, R. I. | April 26, 1811 |
| Straw, plant, trimming & dressing | Mary Kies | Killingly, Ct. | May 5, 1809 |
| Straw, weaving, with silk or thread | Thomas R. I., now in London | Wrentham, Mass. | Feb. 28, 1811 |
| Straw, woven flat | William Pond | Newport, R. I., now in London | April 24, 1840 |
| Stuffs, in which the fibres of various materials are united with adhesive mixtures, machinery for the manufacture of | Thos. R. Williams | | |

† Annotated March 23, 1846.

† Annotated Feb. 22, 1836.

* Reissued March 30, 1836.

MANUFACTURES.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|--|------------------------------|----------------|
| Spinning, spindle, and fier. | Asa Jilison | Roxbury, Mass. | July 17, 1815 |
| Spinning, spindle, and fier. | W. T. Eddy | Huaca, N. Y. | Feb. 10, 1836 |
| Spinning, spindle, fier and bobbin | Thomas Godden | Saddle River t'p, N. J. | Feb. 11, 1833 |
| Spinning, spindle, preventing friction | J. G. Sholz | Pickaway town p, O. | July 6, 1827 |
| Spinning, spindle, rotary and stationary | C. Jackson, St. S. Potter, & John Miller | Providence, R. I. | April 2, 1835 |
| Spinning, spindle, sill and can-roving | John Irwin | Coventry, R. I. | Mar. 26, 1830 |
| Spinning, spindle, wool | Russel Phelps | Andover, Mass. | Dec. 21, 1830 |
| Spinning, splicing cotton & wool | Gardner Barton, jr | Shafabury, Vt. | April 22, 1826 |
| Spinning thread, of wool | William Bell | Fayette co., Ky. | June 1, 1825 |
| Spinning, throstle | Samuel Bydenburg | New York | Nov. 10, 1829 |
| Spinning, throstle | Charles Danforth | Patterson, N. J. | April 1, 1830 |
| Spinning, throstle, bobbin & spool | Thomas Van Ripper | Patterson, N. J. | April 1, 1830 |
| Spinning, throstle, cotton spinner | Benjamin Brundred | Manaroneck, N. Y. | Aug. 16, 1826 |
| Spinning, throstle frame | Henry Ruggles | New York | Jan. 17, 1824 |
| Spinning, throstle frame, and bobbin regulator | John Brown and John Slandish | Providence & Cranston, R. I. | Nov. 24, 1829 |
| Spinning, throstle frame, & spinning cotton | Seth Simmons | Providence, R. I. | June 13, 1831 |
| Spinning, throstle, spindle | C. Lewis & C. Taylor | Providence, R. I. | Jan. 16, 1832 |
| Spinning, throstle, spindle | Gilbert Brewster | Poughkeepsie, N. Y. | June 26, 1822 |
| Spinning, throstle, spindle frame | Benjamin Brundred | Norwich, Ct. | Mar. 13, 1824 |
| Spinning, throstle, wool, &c. | Stephen Shallcross | Oldham, N. J. | May 7, 1830 |
| Spinning and twisting cotton | John Thorpe | New York | Jan. 21, 1814 |
| Spinning and twisting, & kinking hair | Hiram Burnham | Providence, R. I. | Nov. 20, 1828 |
| Spinning and twisting straw, hay &c. | Charles Danforth | New York, N. Y. | June 22, 1842 |
| Spinning and twisting straw, hay &c. | Philo G. Sheldon | Patterson, N. Y. | May 4, 1841 |
| Spinning with twisting thread | Obadiah Herbert | Winchester, Ct. | April 8, 1835 |
| Spinning wheel | Amos Miner | Mt. Pleasant, N. J. | Jan. 28, 1792 |
| Spinning wheel | Tim. Crutenden | Marcellus, N. Y. | Nov. 16, 1803 |
| Spinning wheel | Ob. Seely | Poultney, Va. | April 6, 1808 |
| Spinning wheel | William Drury | Ob. Seely | Aug. 6, 1808 |
| Spinning wheel | James Shaw | Brookfield, Mass. | Mar. 19, 1810 |
| Spinning wheel | Daniel Hurlbutt | Herkimer, N. Y. | April 27, 1812 |
| Spinning wheel | Harvey Wright & O. Roberts | Aurelius, N. Y. | Aug. 4, 1813 |
| Spinning wheel | Elias B. Sanford | Bristol, Ct. | Mar. 26, 1814 |
| Spinning wheel | James Wright | Newton, Ct. | April 11, 1816 |
| Spinning wheel | Timothy Crutenden | Campbell co., Ky. | Feb. 28, 1817 |
| Spinning wheel | Zalmon T. Bradley | New York | May 19, 1817 |
| Spinning wheel | John Brown | Gt. Barrington, Mass | April 21, 1818 |
| Spinning wheel | Henry Wilson | Providence, R. I. | June 12, 1818 |
| Spinning wheel | Chas. F. Schaffie | Mendon, N. Y. | Dec. 29, 1818 |
| Spinning wheel | Guy Brooks | Lewisburg, Pa. | Feb. 26, 1824 |
| Spinning wheel, cordage | William B. Dyer | Athol, N. Y. | April 2, 1824 |
| Spinning wheel, heads | Amos Miner | Baltimore, Md. | Feb. 27, 1808 |
| Spinning wheel, heads | Archelaus Putnam | Marcellus, N. Y. | April 11, 1810 |
| Spinning wheel, heads | William H. Peabody | Philadelphia, Pa. | July 30, 1811 |
| Spinning wheel, heads | Eli Church | Woodbury, Ct. | Dec. 14, 1812 |
| Spinning wheel, heads | David Loring | Homer, N. Y. | Mar. 18, 1813 |
| Spinning wheel, heads | Emory Russell | Canandaigua, N. Y. | Dec. 31, 1813 |
| Spinning wheel, heads | David Lee | Long Meadow, Mass | April 18, 1814 |
| Spinning wheel, heads | I. Mudge & M. Hatch | Guilford, Ct. | May 6, 1816 |
| Spinning wheel, heads, acetate's | Diana H. Tuttle | Sherburne, N. Y. | April 10, 1819 |
| Spinning wheel, heads, linen | Brown Smith & Chas. Stewart | Williamson, N. Y. | May 17, 1824 |
| Spinning wheel, heads, linen | Jared S. Stewart | Truxton, N. J. | Dec. 8, 1814 |
| Spinning wheel, improvement in | Hiram F. Wheeler | Springfield, N. Y. | April 19, 1821 |
| Spinning wheel, linen | Benjamin Simmons | Springfield, Va. | Dec. 15, 1846 |
| | | Paris, N. Y. | July 20, 1820 |

† Annotated March 23, 1846.

† Annotated Feb. 22, 1836.

* Reissued March 30, 1836.

MANUFACTURES.

MANUFACTURES.

| INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. | INVENTIONS OR DISCOVERIES. | PATENTEES. | RESIDENCE. | WHEN ISSUED. |
|--|--|----------------------|----------------|---|--|----------------------------|----------------|
| Threads or cords, worsted or other, dressing or finishing. | Benjamin B. Tilt and James Skinner. | Roxbury, Mass. | July 8, 1843 | Wool, combing, &c., combing and preparing. | Francis A. Calvert. | Lowell, Mass. | Oct. 9, 1841 |
| Tenter bars, circular. | Stephen R. Parkhurst. | Meriden, R. I. | Dec. 2, 1834 | Wool combing, machine for. | Charles G. Sargent. | Lowell, Mass. | Oct. 7, 1842 |
| Tenter bars, circular. | Stephen R. Parkhurst. | Worcester, Mass. | Oct. 28, 1835 | Wool, combing. | Francis A. Calvert. | New York, N. Y. | Dec. 27, 1843 |
| Thread, packing. | Reuben Landon. | Hartford, Conn. | June 20, 1831 | Wool, combing, England. | George E. Donisthorpe. | Bradford, England. | Sept. 11, 1844 |
| * Thread, preventing from waste. | John Golding. | Dedham, Mass. | Aug. 15, 1837 | Wool, combing to start the oil. | Ezra Goulding. | Patterson, N. J. | Oct. 9, 1844 |
| Thread, waste, reducing to cotton wool. | Ogden Griswold. | Hartford, Conn. | July 17, 1837 | Wool, composition. | John Goulding. | Dedham, Mass. | Aug. 24, 1837 |
| Thread, waste, reducing to cotton. | William Gray. | Hebron, Conn. | July 23, 1837 | Wool, cotton, &c., cleaning from burs. | William W. Calvert and Alanson Crane. | Chelmsford, Mass. | July 16, 1841 |
| Thread for spinning. | Benjamin Brundred. | Patterson, N. J. | Sept. 9, 1845 | * Wool and cotton, ginning, burring and opening † | Francis A. Calvert, George C. Kellogg and Phineas Gillett. | Lowell, Mass. | Nov. 25, 1841 |
| Tow line.—See Class 7. | | | | Wool, cotton, cleaning rollers. | Samuel Sawyer. | New Hartford, Conn. | April 30, 1840 |
| Twine or small cord, machinery for making. | Hugh McCubbin. | Petersburg, Va. | Aug. 17, 1843 | Wool or flax, comb. | William W. Calvert. | Boston, Mass. | Mar. 30, 1833 |
| Twine, tarring and spooling. | Israel Decker. | Boston, Mass. | April 3, 1819 | * Wool or flax, to brush into teeth. | George W. Lyman, assignee of William W. Calvert. | Lowell, Mass. | July 2, 1836 |
| Twisting, reeling, and doubling machine. | H. E. and J. Haight. | New York. | Aug. 30, 1813 | Wool, hair, &c., forming web without spinning. | J. Arnold and G. G. Bishop. | Boston, Mass. | Sept. 18, 1835 |
| Twisting, pelisse, improvement in the manufacture of. | Walter Hunt. | New York. | June 11, 1833 | Wool, manufacturing. | John Goulding. | Norwalk, Conn. | Oct. 20, 1836 |
| Warp, net fabrics. | Darius Goff. | Rehoboth, Mass. | Jan. 15, 1846 | Wool, manufacturing. | John Goulding. | Dedham, Mass. | April 27, 1837 |
| Weavers' harness. | G. W. Heard, assignee of J. S. Glover. | Ipswich, Mass. | June 27, 1846 | Wool, manufacturing. | John Goulding. | Dedham, Mass. | July 10, 1837 |
| Whipper, cotton, and cleaning. | Kassimer Vogel. | Lowell, Mass. | Dec. 10, 1846 | Wool, manufacturing. | John Goulding. | Dedham, Mass. | Feb. 16, 1839 |
| Whipper, cotton, cylindrical grate. | Peter Moulton. | New Rochelle, N. Y. | Aug. 24, 1846 | Wool, manufacturing. | John Goulding. | Dedham, Mass. | June 11, 1839 |
| Whipper, cotton, oblique. | William Hopkins. | Plainfield, Conn. | March 6, 1833 | Wool, manufacturing. | John Goulding. | Dedham, Mass. | July 21, 1839 |
| Whipper, cotton, revolving. | Samuel P. Mason. | Killingly, Conn. | Oct. 1, 1830 | Wool, picking, and separating burs. | Francis A. Calvert. | New York, N. Y. | June 3, 1843 |
| Winding cotton. | Lucien Osgood. | Schuette, R. I. | Oct. 27, 1835 | Wool, washing, on the sheep. | Joseph Banford. | Philadelphia, Pa. | Mar. 18, 1813 |
| Winding quills. | Elisha Baker. | Abington, P. O., Ct. | June 4, 1830 | Wringing dyes from cloth. | Charles Harris. | Snowhill, Ohio. | Oct. 1, 1830 |
| Winding slubbing from the card. | David Brown, Jr. | Warren, R. I. | Feb. 5, 1807 | Yarn, cotton, without the aid of twist. | William Nelson. | Batavia, N. Y. | Nov. 13, 1828 |
| Winding spooling. | Levi Ruggies. | Boston, Mass. | Aug. 16, 1810 | Yarn, drawing, and forming into readies. | Erasmus Wolcott. | Newport, N. Y. | Dec. 11, 1821 |
| Winding spooling, and weaving. | Charles Atwood. | Middletown, Conn. | Nov. 1, 1830 | Yarn drawing, frame for regulating to weaving. | Robert Graves. | Boston, Mass. | Nov. 22, 1820 |
| Winding spools and bobbins. | William H. Elliott. | Leicester, Mass. | Dec. 28, 1833 | Yarn, dressing, preparatory to weaving. | Jos. Pray and C. Slaford. | East Killingly, Conn. | Nov. 12, 1846 |
| Winding spools and bobbins. | Eb. Stovell. | Middlebury, Vt. | Feb. 28, 1815 | Yarn doubling, twisting and reeling. | Samuel Batchelder. | Saco, Maine. | June 23, 1832 |
| Winding spools and bobbins. | Walter James. | Ashford, Conn. | Aug. 20, 1810 | Yarn, equalizing the strain upon. | George Levan. | Gap, Pa. | July 20, 1846 |
| Winding spool yarn. | Augustus Sherwood. | Hudson, N. Y. | Oct. 18, 1814 | Yarn, preparing for weaving. | Robert Graves. | Boston, Mass. | Nov. 22, 1820 |
| Winder, socket, bobbin. | Cal. Flag and O. Wright. | Boston, Mass. | March 9, 1816 | Yarn, rolls, forming on the shuttle, bobbin. | H. P. Franklin and W. B. Windsor. | Providence, R. I. | Aug. 8, 1817 |
| Winding, spooling wool from the breaker carding machine. | Paul Moody. | Boston, Mass. | March 9, 1816 | Yarn, sizing, by steam. | John Thorpe. | Providence, R. I. | Nov. 20, 1819 |
| Wool burring. | John Thorp and Silas Sheppard. | Taunton, Mass. | Oct. 14, 1816 | Yarn, tarring. | Hannibal Fletcher. | Shelburne, Vt. | July 8, 1843 |
| Wool, burrize and cleaning. | Zachariah Allen. | Providence, R. I. | Sept. 10, 1839 | Yarn, washing and cleaning. | John Thursty. | Kushwick, N. Y. | May 2, 1843 |
| Wool, cleaning burs from, on the skin. | Henry Concklin. | Poughkeepsie, N. Y. | July 6, 1839 | Yarn, woolen. | Sands Olcott. | Philadelphia, Pa. | April 11, 1840 |
| Wool cleaning. | Theodore Ely. | New York. | May 16, 1845 | | William B. Walker. | Hillsborough Bridge, N. H. | July 1, 1836 |
| Wool cleaning. | Theodore Ely. | Poughkeepsie, N. Y. | Sept. 17, 1838 | | | | |
| Wool cleaning. | Lewis S. Miller. | Rochester, N. Y. | Jan. 31, 1831 | | | | |
| Wool cleaning. | Samuel Conillard, Jr. | Boston, Mass. | Mar. 30, 1833 | | | | |
| Wool cleaning. | Michael S. Simpson. | Boston, Mass. | July 7, 1835 | | | | |
| Wool cleaning. | J. Wolcott and C. W. Brown. | Roxbury, Mass. | Oct. 18, 1837 | | | | |
| Wool, cleansing burs from, &c., and ginning cotton. | Erastus Tracy. | Poughkeepsie, N. Y. | Dec. 30, 1837 | | | | |
| * Wool, combing. | Milton D. Whipple. | East Douglass, Mass. | Oct. 28, 1840 | | | | |

* Eng. pat. Nov. 25, '43. † Antedated October 30, '39. ‡ Reissued Sept. 9, '43. § Reissued July 29, '36.

* Reissued June 16, 1836. July 6, 1839.

Appendix B

Chronological List of Textile Patent Models in the Smithsonian Collections, 1819–1910

There are more than four thousand patent models in the collection of the National Museum of American History's Division of Textiles. Most of these models were selected by Dr. Frederick Lewton in 1926 when the Patent Office disposed of its collection. Prior to 1880, a model, along with the inventor's written specification and drawing, was required to obtain a patent. Even after the model requirement was dropped in 1880, inventors continued to submit models.

The Patent Office fire of 1836 destroyed all of the models that had accumulated up to that time. Shortly thereafter, the Patent Office undertook a restoration program to replace the most important drawings and models. This restoration program continued until 1849, during which time several thousand drawings and models were restored.

The listing does not include sewing machine patent models and attachments (approximately 1600). For a complete history of sewing machines and a guide to the Division of Textile's collection, Grace Cooper's book, *The Sewing Machine: Its Invention and Development*, is suggested as a reference.

This listing is part of a special computerization project,

carried out by the author, to compile a database on the estimated 10,000 models in the National Museum of American History. The textile patent model list spans the years 1819 through 1910.

The following information is given for each patent: patent number, inventor, type of invention, and year of patent issuance. Other items not shown here but included in the database are names of additional inventors, month and day of patent, city and state residence of inventor, assignee, Smithsonian division in which model is kept, Smithsonian catalog number and photographic negative number (if available). The database computer project is ongoing and will continue to evolve as new information becomes available. As is generally true of computerized databases, it is possible to select and sort records by any of the information categories listed above. Should researchers be interested in further information concerning the patent model collection of the Smithsonian National Museum of American History, they should contact the author. The Division of Textiles is interested in learning more about our patent models and would welcome additional information.

| Patent | Invention | Inventor | Year |
|-------------------------------------|-------------------------------------|------------------------|------|
| 3082x | Cloth Shearing Machine | Parsons, Seth | 1819 |
| 5193x | Loom, Power, Check & Plaid | Burt, Enoch | 1828 |
| 8191x | Cloth Shearing Machine | Daniels, Reuben | 1834 |
| 18952 ¹ / ₂ x | Combing Machine, Wool | Couillard, Jr., Samuel | 1835 |
| 9098x | Combing Machine, Wool & Flax | Calvert, William W. | 1835 |
| 9743x | Spinning & Twisting Silk Machine | Brooks, Adams | 1836 |
| 162 | Loom Shuttle Tongue | Thorp, Comfort B. | 1837 |
| 291 | Loom Temple, Self Adjusting | Mason, Samuel P. | 1837 |
| 350 | Cloth Napping Machine | Swazey, Benjamin | 1837 |
| 352 | Doubling & Twisting Machine, Thread | Golding, John | 1837 |
| 490 | Loom, Hair Cloth | Harvey, Charles | 1837 |
| 491 | Loom, Fancy Power | Crompton, William | 1837 |
| 544 | Loom Heddle, Metallic | Hartford, Benjamin | 1837 |
| 546 | Loom, Knotted Counterpane | Bigelow, Erastus B. | 1838 |
| 595 | Loom, Power | Fairman, Elijah | 1838 |
| 596 | Cordage Machine | Day, Moses | 1838 |
| 710 | Spinning Wheel, Domestic | Wheeler, Hiram F. | 1838 |
| 724 | Speeder For Roving Cotton | Mason, William | 1838 |
| 758 | Loom Let Off & Take Up | Kimball, Stephen | 1838 |
| 781 | Spindle & Flyer | Yerkers, Richard E. | 1838 |
| 823 | Printing Machine, Calico | Sibley, Alden | 1838 |
| 863 | Card, Hand | Faber, George | 1838 |
| 977 | Spinning & Doubling Thread Machine | Holland, Harrison | 1838 |
| 987 | Loom Temple | Angell, Emory A. | 1838 |
| 1015 | Cloth Shearing Machine | Parsons, Seth | 1838 |
| 1028 | Carpet | Humphries, John | 1838 |
| 1043 | Spindle & Flyer | Howarth, John | 1838 |
| 1051 | Loom Harness | Thorp, John | 1838 |
| 1080 | Loom Temple | Gibbs, Kendall | 1839 |
| 1228 | Cordage Machine | Hathaway, Alfred | 1839 |
| 1367 | Reeling, Spinning & Twisting Silk | Pratt, Jacob | 1839 |
| 1421 | Knitting Machine | Walker, Richard | 1839 |
| 1485 | Loom Shuttle | Baldwin, James | 1840 |
| 1498 | Loom Heddle | Thorp, John | 1840 |
| 1563 | Loom Heddle, Metallic | Strong, Charles | 1840 |
| 1575 | Picking Machine, Wool & Cotton | Kellogg, George | 1840 |
| 1782 | Rag Dressing Machine | Smith, Emory | 1840 |
| 1834 | Knitting Machine, Circular | Hutchinson, Benjamin | 1840 |
| 1838 | Loom Temple, Rotary | Draper, George | 1840 |
| 1902 | Cloth Stretching Machine | Tillson, John | 1840 |
| 1962 | Carding Machine | Crane, Ebenezer | 1841 |
| 1983 | Spinning, Cotton Roving | Danforth, Charles | 1841 |
| 1984 | Braid Trimming Machine, Straw | Robbins, Henry H. | 1841 |
| 2108 | Speeder, Trostle & Cap | Whitehead, Jesse | 1841 |
| 2175 | Wool & Cotton Cleaner | Calvert, William | 1841 |
| 2184 | Spinning Machine, Ring | Hunter, David | 1841 |
| 2230 | Cloth Folding & Measuring Machine | Spaulding, Joel | 1841 |
| 2255 | Fulling Machine, Felt Cloth | Wells, Henry A. | 1841 |
| 2262 | Hair Seating, Figured Damask | Ross, Samuel | 1841 |
| 2278 | Combing Machine, Wool | Calvert, Francis A. | 1841 |
| 2373 | Cotton Gin | Calvert, Francis A. | 1841 |
| 2377 | Loom Temple | Craig, William | 1841 |
| 2458 | Silk Reeling Machine | Jones, William H. | 1842 |
| 2464 | Loom Temple, Rotary | Draper, George | 1842 |
| 2489 | Loom Shuttle | Coburn, John H. | 1842 |
| 2493 | Knitting Machine | French, Arasmus | 1842 |
| 2511 | Carding & Spinning Machine | Chase, Moses | 1842 |
| 2574 | Loom, Power | Nield, James | 1842 |
| 2576 | Spinning Frame, Cap | Danforth, Charles | 1842 |
| 2605 | Cloth Napping Machine | Taylor, John | 1842 |

| Patent | Invention | Inventor | Year |
|--------|-------------------------------------|-----------------------|------|
| 2616 | Loom | Hendrick, Benjamin W. | 1842 |
| 2625 | Loom, Carpet | Bigelow, Erastus B. | 1842 |
| 2639 | Loom, Carpet | Bigelow, Erastus B. | 1842 |
| 2680 | Spinning, Twisting & Kinking Hair | Burnham, Hiram | 1842 |
| 2696 | Loom, Jacquard, Carpet | Flint, Thomas | 1842 |
| 2741 | Loom, Power, Counterpane | Bigelow, Erastus B. | 1842 |
| 2744 | Loom, Power, Counterpane | Bigelow, Erastus B. | 1842 |
| 2755 | Loom Shuttle | Leavitt, Daniel | 1842 |
| 2798 | Loom, Fish Net | Hoesen, Levi Vaughn | 1842 |
| 2805 | Combing Machine, Wool | Sargent, Charles G. | 1842 |
| 2935 | Loom, Power | Downing, Frederick | 1843 |
| 3005 | Loom, Power | Sanford, George S. | 1843 |
| 3062 | Loom Shuttle Motion | Cunningham, Robert P. | 1843 |
| 3075 | Spinning Machine, Cotton & Wool | Wilcox, Amander N. | 1843 |
| 3089 | Speeder, Double | Davoll, William C. | 1843 |
| 3094 | Carding Machine Rollers | Barbour, Horace | 1843 |
| 3155 | Thread Dressing & Finishing Machine | Tilt, Benjamin | 1843 |
| 3174 | Carding Machine | Boynton, John | 1843 |
| 3250 | Spinning, Cotton Roving | Graves, Jacob | 1843 |
| 3275 | Knitting Machine, Stocking | Burt, Henry | 1843 |
| 3397 | Loom Let Off | Brayton, William H. | 1844 |
| 3436 | Knitting Machine, Straight | Walker, Richard | 1844 |
| 3452 | Spinning, Hemp | Montgomery, William | 1844 |
| 3469 | Cloth Folding & Measuring Machine | Durgin, Silas C. | 1844 |
| 3511 | Loom Temple | Lane, Isaac C. | 1844 |
| 3553 | Spindle & Flyer | Stevens, Phineas | 1844 |
| 3599 | Loom, Power | Nield, James | 1844 |
| 3684 | Silk Reel | Harris, James S. | 1844 |
| 3766 | Spinning Machine, Ring & Hook | Thorp, John | 1844 |
| 3785 | Combing Machine, Wool | Gould, Ezra | 1844 |
| 3843 | Carding Machine, Self Stripping | Barbour, Horace | 1844 |
| 3912 | Cotton Cleaning Machine | McCarthy, Fones | 1845 |
| 3925 | Loom Temple | Bigelow, Erastus B. | 1845 |
| 3926 | Speeder Flyer | Bigelow, Erastus B. | 1845 |
| 3934 | Rope Making Machine | Townsend, Edward S. | 1845 |
| 3948 | Loom Let Off & Take Up | Bigelow, Erastus B. | 1845 |
| 3954 | Loom, Power | Nield, James | 1845 |
| 3955 | Loom Stop Motion | Nield, James | 1845 |
| 4033 | Hat Nap Polishing Machine | Loudon, John | 1845 |
| 4039 | Knitting Machine, Netting | Cornelius, John | 1845 |
| 4215 | Spinning Bobbin Driver | Baxter, William | 1845 |
| 4277 | Roving, Laying In Cans | Tatham, John | 1845 |
| 4281 | Spindle Tube, Live | Anderson, Alexander | 1845 |
| 4372 | Cotton Wadding Machine | Essex, Jeremiah | 1846 |
| 4379 | Loom Temple | Palmer, Arnold | 1846 |
| 4514 | Picker Rivet | Holbrook, Benjamin A. | 1846 |
| 4562 | Spinning Machine, Cap | Peters, Jacob | 1846 |
| 4608 | Net Making Machine | McMullen, John | 1846 |
| 4644 | Loom, Carpet | Sherwood, William | 1846 |
| 4645 | Loom Treadle Cam, Twill | Garsed, Richard | 1846 |
| 4649 | Doubling, Twisting & Reeling Yarn | Levan, George | 1846 |
| 4683 | Bobbin, Flyer & Spindle | Walcott, Alexander S. | 1846 |
| 4696 | Loom, Carpet | Bigelow, Erastus B. | 1846 |
| 4707 | Net Making Machine | Moulton, Peter | 1846 |
| 4714 | Rope Making Machine, Wire | Newall, Robert S. | 1846 |
| 4881 | Loom Harness & Heddle | Vogal, Kasimer | 1846 |
| 4892 | Spinning Wheel | Wheeler, Hiram F. | 1846 |
| 4993 | Cloth Machine Fold & Measure | Woodman, Elbridge G. | 1847 |
| 4999 | Cotton Cleaning Machine | Livingston, Robert M. | 1847 |

| Patent | Invention | Inventor | Year |
|--------|--------------------------------------|-----------------------|------|
| 5008 | Cotton Cleaning Machine | Needham, Rozell | 1847 |
| 5018 | Combing Machine, Wool | Sargent, Charles G. | 1847 |
| 5020 | Loom, Carpet | Bigelow, Erastus B. | 1847 |
| 5023 | Knitting Machine | Vickerstaff, Joseph | 1847 |
| 5085 | Spinning Machine Drawing Attachment | Evans, John | 1847 |
| 5280 | Spinning Machine | Obenchain, Matthew W. | 1847 |
| 5318 | Loom | Collins, Richard | 1847 |
| 5337 | Roving, Laying In Cans | Strange, Joseph W. | 1847 |
| 5346 | Rope Making Machine, Wire | Townsend, Edward S. | 1847 |
| 5378 | Spinning Machine | Dodge, George H. | 1847 |
| 5379 | Loom Shuttle Box Motion, Power | Nield, James | 1847 |
| 5450 | Loom | Norfolk, Edward | 1848 |
| 5484 | Picker, Wool | Kellogg, George C. | 1848 |
| 5628 | Loom Shuttle | Lawson, Peter | 1848 |
| 5754 | Cloth Stretching & Drying Apparatus | Bigelow, Erastus B. | 1848 |
| 5797 | Loom Temple | Peck, Benjamin | 1848 |
| 5851 | Doubling & Twisting Machine, Yarn | Lyle, Thomas | 1848 |
| 5891 | Loom Treadle Harness Motion | Haworth, James | 1848 |
| 6008 | Shears, Tailor | Warner, Benjamin J. | 1849 |
| 6014 | Drawing Frame Stop Motion | Danforth, Charles | 1849 |
| 6082 | Rope Making Machine, Wire | Roebing, John A. | 1849 |
| 6084 | Spinning Machine, Hemp | Pedrick, William | 1849 |
| 6143 | Loom Temple | Day, Lewis | 1849 |
| 6144 | Loom, Brussels Carpet | Draper, George | 1849 |
| 6153 | Loom, Brussels Carpet | Bigelow, Erastus B. | 1849 |
| 6157 | Loom Take Up | Boyd, Amos H. | 1849 |
| 6159 | Loom Let Off, Positive | Meyers, Jeremiah | 1849 |
| 6170 | Loom Shuttle Motion | Goodyear, Robert B. | 1849 |
| 6176 | Rope Making Machine | Morrison, Benjamin | 1849 |
| 6186 | Loom, Brussels Carpet | Bigelow, Erastus B. | 1849 |
| 6229 | Warping Guide | Hayden, Whiting | 1849 |
| 6316 | Loom, Pile Fabric, Narrow | Faulkner, Augustus | 1849 |
| 6344 | Spinning Machine Spindle | Eastman, Arthur M. | 1849 |
| 6388 | Spinning Machine, Hemp | Hibbard, William G. | 1849 |
| 6412 | Rug Making Machine | Hodgman, Daniel | 1849 |
| 6435 | Spooling Machine, Yarn | Dodge, George H. | 1849 |
| 6441 | Rope Laying Machine | Guild, Martin | 1849 |
| 6487 | Loom, Power | Wilson, John | 1849 |
| 6539 | Carding Machine | McCarty, John | 1849 |
| 6570 | Spinning Mule, Self Acting Regulator | Sanger, Ebenezer C. | 1849 |
| 6572 | Spindle & Flyer | MacLardy, William | 1849 |
| 6691 | Loom Harness Weaving Machine | Holton, Jr., Simeon | 1849 |
| 6785 | Lapping Machine | Campbell, Samuel | 1849 |
| 6797 | Loom, Figured Fabric | Reynolds, Joseph | 1849 |
| 6813 | Loom | Faulkner, Augustus | 1849 |
| 6823 | Loom | Bachofner Henry | 1849 |
| 6832 | Loom, Bat Wing Pick | Lightbrown, Roger | 1849 |
| 6845 | Loom, Figured Fabric | Garsed, Richard | 1849 |
| 6911 | Fringe Twisting Machine, Shawl | Whipple, Milton D. | 1849 |
| 6928 | Spinning Machine, Hemp | Van Riper, Garret | 1849 |
| 6938 | Spinning Head | Jenks, Alfred | 1849 |
| 6939 | Loom, Figured Fabric | Marshall, Moses | 1849 |
| 6942 | Cord Making Machine | Nichols, William E. | 1849 |
| 6986 | Loom Shuttle Box, Power | Goodyear, Robert | 1850 |
| 7028 | Spinning Machine Spindle & Bobbin | Reed, Josiah G. | 1850 |
| 7058 | Spinning Machine Bobbin Driver | Pearl, Oliver | 1850 |
| 7072 | Carding Machine, Wool | Jackson, Charles | 1850 |
| 7112 | Loom Cloth Measuring Attachment | Webster, John G. | 1850 |
| 7130 | Rope Making Machine | Whipple, Cullen | 1850 |
| 7137 | Loom, Figured Fabric | Eccles, Samuel | 1850 |
| 7165 | Spinning Machine Drawing Regulator | Hayden, Whiting | 1850 |
| 7168 | Loom, Pile Fabric | Johnson, John | 1850 |

| Patent | Invention | Inventor | Year |
|--------|-------------------------------------|------------------------|------|
| 7180 | Loom, Pile Fabric | Bryant, Mertoun C. | 1850 |
| 7228 | Printing, Floor Oil Cloth | Powers, Nathaniel B. | 1850 |
| 7314 | Cloth Measuring Instrument | Whitin, E.F. | 1850 |
| 7370 | Buckle, Suspender | Scarlett, William | 1850 |
| 7387 | Loom, Power | Shuttleworth, John | 1850 |
| 7417 | Loom Shuttle Motion | Kelly, Oliver A. | 1850 |
| 7452 | Loom, Pile Fabric | Bryant, Mertoun C. | 1850 |
| 7502 | Cloth Folding Machine | Allen, Zachariah | 1850 |
| 7509 | Knitting Machine | Hollen, Joseph | 1850 |
| 7614 | Spinning Machine, Hand | Current, David | 1850 |
| 7664 | Rope Making Machine | Evans, Henry | 1850 |
| 7687 | Loom Shuttle | Murkland, William | 1850 |
| 7714 | Loom, Figured Fabric | Babbett, Avery | 1850 |
| 7717 | Loom Let Off & Take Up | Boyd, Amos H. | 1850 |
| 7759 | Spinning, Bobbin & Cop Builder | Rouse, Wanton | 1850 |
| 7803 | Loom Shuttle Motion | Wilcox, Thomas T. | 1850 |
| 7876 | Loom, Seamless Bag | Northrop, Sheldon | 1851 |
| 7884 | Loom, Tapestry Carpet | Bigelow, Erastus B. | 1851 |
| 7898 | Loom, Pile Carpet | Bigelow, Erastus B. | 1851 |
| 7925 | Loom Shuttle Box, Revolving | Burt, Enoch | 1851 |
| 7939 | Loom Heddle | Judkins, Charles T. | 1851 |
| 7982 | Loom, Carpet | Bigelow, Erastus B. | 1851 |
| 7983 | Loom, Jacquard, Pile Fabric | Bigelow, Erastus B. | 1851 |
| 7988 | Loom Cylinder For Figuring | Hastings, Eliakim M. | 1851 |
| 8172 | Knitting Machine | Pepper, John | 1851 |
| 8240 | Cloth Folding Machine | Ambrose, D. R. | 1851 |
| 8368 | Loom Temple, Self Acting | Jillson, Arnold | 1851 |
| 8371 | Picker, Waste | Sargent, Charles G. | 1851 |
| 8390 | Loom Shuttle | Litchfield, Laroy | 1851 |
| 8424 | Fringe Machine | Nesmith, John | 1851 |
| 8506 | Loom Shuttle Motion | Perry, George W. | 1851 |
| 8539 | Loom, Pile Carpet | Bigelow, Erastus B. | 1851 |
| 8553 | Loom, Bag | Baldwin, Cyrus | 1851 |
| 8563 | Cloth Stretching & Drying Apparatus | Barrows, Thomas | 1851 |
| 8586 | Loom Temple | Dutcher, Elihu | 1851 |
| 8649 | Cloth Cutting Apparatus, Pile | Johnson, John | 1852 |
| 8656 | Loom, Pile Fabric | Maxwell, Charles A. | 1852 |
| 8778 | Printing Machine, Floor Cloth | Savage, Simeon | 1852 |
| 8798 | Carpet | Crossley, Thomas | 1852 |
| 8807 | Spinning Machine Spindle Washer | Robbins, Horace T. | 1852 |
| 8810 | Loom Pattern Card, Jacquard | Thomas, Samuel | 1852 |
| 8825 | Cordage Machine | Joslin, William | 1852 |
| 8874 | Loom, Fancy | Jenks, Barton | 1852 |
| 8875 | Reeling Machine | Macy, Elias | 1852 |
| 8902 | Loom Shuttle, Hair Cloth | Dewey, Daniel S. | 1852 |
| 8997 | Spinning Frame, Cop | Dodge, George H. | 1852 |
| 9040 | Cordage Machine | Perry, David | 1852 |
| 9101 | Cordage Machine | Peer, John W. | 1852 |
| 9162 | Loom Harness Motion | Blanchard, Charles W. | 1852 |
| 9168 | Loom, Figured Fabric | Eccles, Samuel | 1852 |
| 9188 | Loom, Pile Fabric | Richardson, Samuel | 1852 |
| 9257 | Clothes Pin | Aldrich, Samuel | 1852 |
| 9263 | Loom Shuttle Guide | Robbins, Horace T. | 1852 |
| 9377 | Loom Harness, Counterbalancing | Greenhalgh, James | 1852 |
| 9387 | Loom, Seamless Bag | Mendenhall, Stephen C. | 1852 |
| 9388 | Loom, Hand | Mendenhall, Stephen C. | 1852 |
| 9401 | Loom, Carpet | Van Riper, John A. | 1852 |
| 9414 | Cordage Machine | Jennings, Hezekiah T. | 1852 |
| 9417 | Loom Pincer, Pile Fabric | Faulkner, Augustus | 1852 |
| 9496 | Cloth Measure | Woodworth, William H. | 1852 |
| 9507 | Loom Shuttle | Tucker, William | 1852 |
| 9545 | Loom, Jacquard | Everett, Edward | 1852 |

| Patent | Invention | Inventor | Year |
|--------|-------------------------------------|------------------------|------|
| 9603 | Loom | Townshend, William | 1853 |
| 9626 | Knitting Machine, Straight | Mansfield, William | 1853 |
| 9670 | Picker & Willower Feed Motion | Calvert, Francis A. | 1853 |
| 9718 | Knitting Machine | Mee, John | 1853 |
| 9795 | Loom, Jacquard | Elder, John A. | 1853 |
| 9814 | Bobbin | Clark, Horatio | 1853 |
| 10096 | Loom, Coach Lace | Murrill, James H. | 1853 |
| 10135 | Loom, Power | Mason, William | 1853 |
| 10173 | Loom Harness | Vogal, Kasimer | 1853 |
| 10205 | Loom Harness Motion | Greenhalgh, Jr., James | 1853 |
| 10206 | Loom Temple | Greene, Jerome B. | 1853 |
| 10222 | Loom, Pile Fabric, Wire Shifting | Bigelow, Erastus B. | 1853 |
| 10241 | Loom | Townshend, William | 1853 |
| 10252 | Loom Shuttle Box Mechanism | Kelly, Oliver A. | 1853 |
| 10290 | Loom, Power | Baird, William | 1853 |
| 10298 | Carding Machine, Cleaning Cards | Wellman, George | 1853 |
| 10311 | Clothes Pin | Hotchkiss, F.S. | 1853 |
| 10335 | Loom Shuttle | Carroll, David | 1853 |
| 10382 | Loom, Power | Shuttleworth, John | 1854 |
| 10453 | Cloth Fulling Machine | Jennings, James | 1854 |
| 10484 | Carpet Bag | Thring, Frederick J. | 1854 |
| 10545 | Cloth Stretching & Drying Apparatus | Stearns, Daniel | 1854 |
| 10578 | Cotton Picker Cylinder | Pitts, James | 1854 |
| 10599 | Reeling Machine | Levan, George | 1854 |
| 10866 | Rope Making Machine | Robinson, Jr., William | 1854 |
| 10876 | Flax Dressing Machine | Norfolk, E.L. | 1854 |
| 10910 | Knitting Machine | Hopkins, Israel M. | 1854 |
| 10913 | Combing Machine, Wool | Sargent, Charles G. | 1854 |
| 10980 | Knitting Machine | Barsantee, John H. | 1854 |
| 10986 | Cloth Cutting Machine | Harraday, John | 1854 |
| 11038 | Carpet, Cut Pile | Crossley, Thomas | 1854 |
| 11070 | Carding Machine Teeth | Montgomery, William | 1854 |
| 11106 | Spinning Machine | Victory, Edmund | 1854 |
| 11118 | Printing, Woolen & Other Goods | Crossley, Thomas | 1854 |
| 11120 | Cloth, Double | Fay, Samuel | 1854 |
| 11145 | Cloth Folding & Measuring Machine | Wright, William C. | 1854 |
| 11199 | Cotton Combing Machine | Noble, James | 1854 |
| 11202 | Cordage Machine | Tyler, Philos B. | 1854 |
| 11279 | Spinning Mule, Self Acting | Wright, George | 1854 |
| 11342 | Winding Machine, Rope or Yarn | Tyler, Philos B. | 1854 |
| 11434 | Card Teeth Sticking Machine | Coats, G. W. | 1854 |
| 11436 | Warping & Dressing Yarn | Thomas, Samuel | 1854 |
| 11448 | Carding Machine, Cleaning Cards | Woodman, Horace | 1854 |
| 11475 | Speeder Stop Motion | Cutting, Lewis | 1854 |
| 11512 | Braiding Machine | Bazin, James A. | 1854 |
| 11534 | Combing Machine, Wool | Sargent, Charles G. | 1854 |
| 11554 | Knitting Machine | Jackson, George | 1854 |
| 11564 | Carpet, Two Ply | Crossley, Thomas | 1854 |
| 11643 | Ribbon, Velvet | Eastman, Augustus M. | 1854 |
| 11719 | Loom Harness Clasp | Copeland, George | 1854 |
| 11720 | Knitting Machine | Corwin, Joseph A. | 1854 |
| 11775 | Spinning Machine, Rope & Cordage | Carpenter, Jesse | 1854 |
| 11790 | Loom | Mendenhall, Stephen C. | 1854 |
| 11833 | Loom | Jenks, Barton H. | 1854 |
| 11834 | Carpet Manufacture, Chenille | McNair, John G. | 1854 |
| 11865 | Cotton Picker | Kitson, Richard | 1854 |
| 11919 | Loom Beam | Thomas, Samuel T. | 1854 |
| 11995 | Knitting Machine | Hollen, Joseph | 1854 |
| 12012 | Washing Machine | Wheeler, William | 1854 |
| 12016 | Rope & Cordage Making Machine | Woodworth II, Arad | 1854 |
| 12040 | Yarn Making Machine | Taylor, James | 1854 |

| Patent | Invention | Inventor | Year |
|--------|--------------------------------------|----------------------|------|
| 12050 | Loom | Bonelli, Gaetan | 1854 |
| 12055 | Spinning Machine, Throstle, Cotton | Danforth, Charles | 1854 |
| 12120 | Loom | Brigham, Abram | 1855 |
| 12138 | Roving Size Regulator | Pearson, Jr., Samuel | 1855 |
| 12236 | Loom Temple | Allen, John H. | 1855 |
| 12457 | Loom, Buttonhole | Gee, William V. | 1855 |
| 12532 | Spinning Machine, Wool | Stoddard, F.S. | 1855 |
| 12565 | Loom, Gauze | Van Riper, Lewis | 1855 |
| 12581 | Spinning Machine, Wool | Bigelow, Augustus E. | 1855 |
| 12582 | Roving Frame Throstle & Cap | Bigelow, Augustus E. | 1855 |
| 12596 | Loom Shedding Motion | Irish, William S. | 1855 |
| 12635 | Cotton Gin | Mell, J.B. | 1855 |
| 12668 | Cord Winding Machine | Boardman, Byron | 1855 |
| 12780 | Loom Shuttle | Litchfield, Laroy | 1855 |
| 12781 | Loom Shuttle | Marble, Ezra P. | 1855 |
| 12879 | Loom Temple | Tilton, Jeremiah C. | 1855 |
| 12889 | Rope Making Machine | Woodworth III, Arad | 1855 |
| 12896 | Knitting Machine Stop Motion | Cushman, Robert | 1855 |
| 13022 | Loom | Whiteside, William | 1855 |
| 13152 | Loom Harness Making Machine | Senneff, Jacob | 1855 |
| 13165 | Knitting Machine | Fowler, Thomas | 1855 |
| 13267 | Thread Twisting Machine, Sewing | Kelsea, Harold | 1855 |
| 13284 | Loom Picker Stick Check | Wood, Edward | 1855 |
| 13289 | Knitting Machine | Pepper, John | 1855 |
| 13290 | Wool Preparation for Cleaning | Reinhardt, Albert | 1855 |
| 13309 | Rope Making Machine | Harris, John | 1855 |
| 13391 | Braiding Machine | Hull, Liveras | 1855 |
| 13413 | Loom Temple | Smith, James | 1855 |
| 13462 | Engraving Machine, Calico Roller | Hope, John | 1855 |
| 13543 | Cloth Machine, Fold & Measure | Elliot, Joseph D. | 1855 |
| 13564 | Cotton Cleaning Machine | Brown, Samuel W. | 1855 |
| 13571 | Loom, Suspender Webbing | Gee, William V. | 1855 |
| 13578 | Picking & Combing Machine | Kitson, Richard | 1855 |
| 13621 | Knitting Machine | Powell, Joseph | 1855 |
| 13693 | Knitting Machine | Doolittle, John H. | 1855 |
| 13724 | Loom | Leach, James O. | 1855 |
| 13726 | Spinning Frame, Ring & Traveler | Luther, Henry | 1855 |
| 13752 | Spinning Mule, Self Acting | Harris, John | 1855 |
| 13795 | Spinning Frame, Throstle | Morse, Joseph | 1855 |
| 13818 | Yarn Dyeing & Cloth Printing Machine | Henderson, Thomas | 1855 |
| 13862 | Loom Attachment, Pile Fabric | Bigelow, Erastus B. | 1855 |
| 13898 | Cotton Gin Opener & Feeder | Clarke, Major V. | 1855 |
| 13936 | Loom, Pile Fabric | Bigelow, Erastus B. | 1855 |
| 13954 | Spindle Step, Mill | Parker, Isaac N. | 1855 |
| 13970 | Fabric, Woven | Healey, John | 1855 |
| 14000 | Loom, Wire | Smith, George W. | 1855 |
| 14222 | Loom Let Off, Power | Bigelow, Erastus B. | 1856 |
| 14262 | Clothes Pin | Towers, William H. | 1856 |
| 14285 | Loom, Pile Fabric | Johnson, John | 1856 |
| 14292 | Loom Temple | Reynolds, Rensselaer | 1856 |
| 14401 | Hat Pressing Machine | Kinsman, Samuel A. | 1856 |
| 14463 | Winding Frame Cone Tubes | McCrone, John | 1856 |
| 14481 | Carding Machine | Wellman, George | 1856 |
| 14590 | Loom | Bigelow, Erastus B. | 1856 |
| 14725 | Cotton Gin | Kinyon, James H. | 1856 |
| 14815 | Felted Yarns Manufacture | Johnson, Moses A. | 1856 |
| 14938 | Rope & Cordage Making Machine | Dutcher, William R. | 1856 |
| 15008 | Hat Felting Machine | Gray, Sylvester H. | 1856 |
| 15016 | Carding Machine, Wool | Nowell, Foster | 1856 |
| 15186 | Loom | Knowles, Lucius J. | 1856 |

| Patent | Invention | Inventor | Year |
|--------|----------------------------------|-----------------------|------|
| 15291 | Loom, Jacquard | Goulding, John | 1856 |
| 15295 | Loom | Horstmann, William J. | 1856 |
| 15313 | Carding Machine Top Flats | Woodman, Horace | 1856 |
| 15484 | Knitting Machine | Goffe, Augustus J. | 1856 |
| 15492 | Knitting Machine | Park, Sidney | 1856 |
| 15717 | Loom, Jacquard | Cook, James C. | 1856 |
| 15767 | Carpet, Ingrain | Kerr, David B. | 1856 |
| 15781 | Carding Machine | Shattuck, A.D. | 1856 |
| 15929 | Hat Sizing | McCracken, Joseph | 1856 |
| 16028 | Spinning Machine, Throstle | Smith, Joel | 1856 |
| 16037 | Loom, Carpet | Smith, Alexander | 1856 |
| 16196 | Carding Machine Top Flats | Walton, William H. | 1856 |
| 16248 | Loom, Shade Cord | Nelson, Thomas | 1856 |
| 16370 | Loom, Pile Fabric | Bigelow, Erastus B. | 1857 |
| 16405 | Loom Let Off | Bartlett, Stephen | 1857 |
| 16437 | Carpet, Double Pile | Goulding, John | 1857 |
| 16463 | Speeder | Brown, James S. | 1857 |
| 16657 | Spinning Machine Flyer | Sawtell, John N. | 1857 |
| 16685 | Gig Mill, Napping Cloth | Gesner, Ernest | 1857 |
| 16734 | Loom Shuttle | Knowles, Lucius J. | 1857 |
| 16744 | Card Cylinder, Machine Grinding | Parker, Jonathan | 1857 |
| 16824 | Loom Picker Motion, Power | Cheney, John L. | 1857 |
| 16842 | Rope Manufacture | Johnson, Michael H. | 1857 |
| 16858 | Rope Unmaking Machine | Wood, Joseph | 1857 |
| 16864 | Combing Machine, Wool | Simpson, Michael H. | 1857 |
| 16865 | Combing Machine | Whipple, Milton D. | 1857 |
| 16867 | Cordage Machine | Arnold, James P. | 1857 |
| 16934 | Yarn Dyeing & Scouring Preparing | Pratt, Lucien E. | 1857 |
| 16970 | Basket, Grain | Ellis, Joel A.H. | 1857 |
| 16977 | Fringe Cutting Machine | Horstmann, William J. | 1857 |
| 17094 | Carding Machine | Houghton, H. | 1857 |
| 17115 | Hat Felting Machine | Randall, Henry L. | 1857 |
| 17120 | Bobbin Winding Machine | Tompkins, C. | 1857 |
| 17189 | Loom, Pile Fabric | Bigelow, Erastus B. | 1857 |
| 17244 | Combing Machine, Wool | Whipple, Cullen | 1857 |
| 17267 | Loom Temple | Dutcher, Warren W. | 1857 |
| 17323 | Loom Shuttle Motion | Ferguson, Levi | 1857 |
| 17353 | Loom | Carney, Nathaniel B. | 1857 |
| 17375 | Loom Temple | Howard, William H. | 1857 |
| 17379 | Reel, Yarn or Thread | Knauer, Christian | 1857 |
| 17404 | Loom, Narrow Ware | Painter, Franklin | 1857 |
| 17420 | Fiber Preparing Machine | Burke, Francis | 1857 |
| 17468 | Loom Picker | Mayall, Thomas J. | 1857 |
| 17496 | Rope Making Machine | Dutcher, William R. | 1857 |
| 17559 | Loom Temple, Roller | Dutcher, Warren W. | 1857 |
| 17787 | Rope Making Machine | Guile, Ezekiel | 1857 |
| 17929 | Bobbin, Roving | Hayden, Isaac | 1857 |
| 18190 | Paper Pulp Making from Ivory | Clark, William N. | 1857 |
| 18208 | Loom Harness | Matoon, George | 1857 |
| 18313 | Cloth Measuring Machine | Wythes, William W. | 1857 |
| 18320 | Loom, Wire Cloth | Bigelow, Erastus B. | 1857 |
| 18454 | Cotton Cleaning Machine | Johnson, Jesse | 1857 |
| 18529 | Spinning Machine, Flax & Hemp | Whipple, Milton D. | 1857 |
| 18564 | Burring Machine, Wool Pelt | Waterhouse, John | 1857 |
| 18620 | Warp Dressing Machine | Campbell, Samuel | 1857 |
| 18725 | Knitting Machine, Straight | Aiken, Walter | 1857 |
| 18888 | Spinning, Preparing Slivers for | Apperly, James | 1857 |
| 19073 | Loom Let Off, Power | Colvin, Stephen O. | 1858 |
| 19394 | Drawing Cotton | Whipple, Cullen | 1858 |

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|--------|---|---------------------------|------|
| 19531 | Spinning Machine Roving Regulator | Winslow, John B. | 1858 |
| 19623 | Calender Rolls | Clark, Gardner G. | 1858 |
| 19647 | Spinning Bobbin | Nichols, Alfred E. | 1858 |
| 19657 | Felting, Silk Preparing | Taylor, Anson | 1858 |
| 19698 | Loom, Ribbon | Horstmann, William J. | 1858 |
| 19719 | Loom Stop Motion, Hair Cloth | Stafford, R.J. | 1858 |
| 19740 | Knitting Machine | Vickerstaff, J. | 1858 |
| 20044 | Loom | Crompton, George | 1858 |
| 20263 | Fabric, Tucked | France, Thomas | 1858 |
| 20267 | Fabric, Woven | Gujer, John | 1858 |
| 20364 | Clothes Pin | Pierce, Dexter | 1858 |
| 20690 | Cordage Machine | Bazin, James A. | 1858 |
| 20766 | Drawing Roller | Spencer, Seth P. | 1858 |
| 20827 | Fiber Treatment, Tampico Hemp | Staufen, Werner | 1858 |
| 20854 | Knitting Machine Stop Motion | Aiken, N.P. | 1858 |
| 20920 | Spinning Frame | Houghton, A. | 1858 |
| 21068 | Loom Shuttle Cop Tube | Eaton, James | 1858 |
| 21164 | Felting Machinery, Forming Bats | Butler, Thomas B. | 1858 |
| 21238 | Rope Making Machine | Adams, Newton | 1858 |
| 21312 | Loom, Fringe | Beck, James | 1858 |
| 21333 | Spinning Machine Top Roller | Green, Charles | 1858 |
| 21448 | Loom | Scott, E.M. | 1858 |
| 21488 | Warp Dressing Guide | Corey, Alfred B. | 1858 |
| 21515 | Loom Temple | Pilson, Robert | 1858 |
| 21538 | Drawing & Twisting Machine, Wool | Kennedy, John | 1858 |
| 21556 | Silk Thread Sorting Machine | Dimock, Ira | 1858 |
| 21568 | Cotton Gin Brush Cylinder | Lanpher, A.M. | 1858 |
| 21716 | Trademark Stamping Machine | Wright, Algernon S. | 1858 |
| 21932 | Combing Machine, Cotton | Whipple, Milton D. | 1858 |
| 21988 | Drawing & Evening Wool | Smith, Waterman | 1858 |
| 22042 | Loom, Fringe | Walker, Samuel | 1858 |
| 22100 | Braiding Machine | Clemons, Andrew B. | 1858 |
| 22135 | Knitting Machine | Schott, Frederick | 1858 |
| 22262 | Spindle, Throstle Spinning | Brown, Cyriel E. | 1858 |
| 22594 | Loom Temple | Tilton, Jeremiah C. | 1859 |
| 22769 | Knitting Machine Stop Motion | Hiller, Jonathan | 1859 |
| 23446 | Loom, Power | Cheetham, Jr., William H. | 1859 |
| 23486 | Rope Making Machine | Peer, John W. | 1859 |
| 23539 | Thread Gauge | Atwood, J.E. | 1859 |
| 23732 | Combing Fibrous Materials | Whipple, Cullen | 1859 |
| 23934 | Hat Feld Manufacture | Monach, James | 1859 |
| 24270 | Printing, Oil Cloth | Albro, James | 1859 |
| 24272 | Washing Machine | Ayers, Daniel S. | 1859 |
| 24280 | Burring, Wool, & Ginning, Cotton, Machine | Sargent, Charles G. | 1859 |
| 24306 | Loom Temple | Howard, William H. | 1859 |
| 24378 | Loom, Pile Fabric | Crossley, Charles | 1859 |
| 24615 | Thread Trebling Machine | Celerier, Michel | 1859 |
| 24723 | Basket, Fruit | Cook, David | 1859 |
| 24782 | Thread Winding Machine, Skeins | Ring, Asa T. | 1859 |
| 24916 | Knitting Machine | Aiken, Jonas B. | 1859 |
| 25067 | Knitting Machine | Waterhouse, James F. | 1859 |
| 25450 | Thimble | Steirly, James C.R. | 1859 |
| 25796 | Loom, Jacquard | Babbitt, Avery | 1859 |
| 25827 | Knitting Machine | Hollen, Joseph | 1859 |
| 26031 | Drawing & Evening Machine | Hale, Noah E. | 1859 |
| 26075 | Printing, Floor Cloth | Albro, James | 1859 |
| 26231 | Knitting Machine, Circular | Goffe, Augustus | 1859 |
| 26320 | Roving Can Bottom | Bradley, George | 1859 |
| 26636 | Spindle & Flyer | Brown, Cyriel E. | 1859 |
| 26887 | Cotton Cleaner, Wire Screen | Crane, John E. | 1860 |

| Patent | Invention | Inventor | Year |
|--------|----------------------------------|------------------------|------|
| 26895 | Cloth Finishing Machine, Cotton | Davis, Caleb S. | 1860 |
| 26955 | Shears | Smith, Joseph | 1860 |
| 27889 | Loom | Conant, Hezekiah | 1860 |
| 28043 | Loom Temple | Woodward, J.H. | 1860 |
| 28133 | Knitting Machine | Tiffany, Eli | 1860 |
| 28161 | Spinning Machine | Crowell, J.E. | 1860 |
| 28185 | Hat Felting Machine | Lemmann, Martin R. | 1860 |
| 28220 | Spinning Machine | Victory, Edmund | 1860 |
| 28256 | Lap Winding Machine | Cheney, John L. | 1860 |
| 28270 | Loom Harness & Heddle | Greenhalgh, Sr., James | 1860 |
| 28290 | Knitting Machine | NcNary, William H. | 1860 |
| 28297 | Reel, Silk | Palmer, Sidney W. | 1860 |
| 28332 | Engraving Machine Roller | Shields, William | 1860 |
| 28453 | Loom | Clifton, Joseph H. | 1860 |
| 28484 | Fabric, Pile Manufacture | Hill, Noble | 1860 |
| 29174 | Thread Polishing Machine | Ives, Lawson C. | 1860 |
| 29283 | Loom Pattern Chain | Jenks, Barton H. | 1860 |
| 29450 | Knitting Machine | Aiken, Walter | 1860 |
| 29527 | Spindle Driving Mechanism | Slade, Norman | 1860 |
| 29690 | Thread Dressing & Finishing | Hall, Origin | 1860 |
| 29873 | Loom, Power | Furbush, Merrill | 1860 |
| 30543 | Warp Dressing Machine | Pilson, Robert | 1860 |
| 30642 | Swift | Pearson, Charles W. | 1860 |
| 30652 | Loom, Hair Cloth | Angell, Isaac | 1860 |
| 30824 | Thread Dressing Machine | Ives, Lawson | 1860 |
| 30867 | Swift | Benedict, Newton | 1860 |
| 30891 | Shirring Machine | Solis, Richard | 1860 |
| 30896 | Loom Temple | Tilton, Jeremiah C. | 1860 |
| 31042 | Knitting Machine | Terrell, John | 1861 |
| 31176 | Loom Harness Motion | Knowles, Benjamin F. | 1861 |
| 31324 | Loom Shuttle Box Motion | Murkland, William | 1861 |
| 31398 | Drawing Head Stop Motion | Paige, Benjamin O. | 1861 |
| 31425 | Carding Machine | Davis, Joseph | 1861 |
| 31617 | Loom | Peabody, Francis | 1861 |
| 31776 | Loom Picker | Boorn, Samuel | 1861 |
| 31948 | Loom Picker | Boorn, Samuel | 1861 |
| 31953 | Reel | Carnes, Caroline H. | 1861 |
| 31972 | Spinning Machine Lubricator | Hardy, Charles | 1861 |
| 31974 | Loom Temple | Hoffman, Charles | 1861 |
| 31992 | Loom, Hair Cloth | Noblit, John | 1861 |
| 32059 | Spinning Machine | Goulding, George | 1861 |
| 32068 | Loom, Power | King, Thomas | 1861 |
| 32236 | Loom | Shinn, John | 1861 |
| 32245 | Loom | Frey, Alexander | 1861 |
| 32393 | Drawing Frame Stop Motion | Williams, Harrison G. | 1861 |
| 32611 | Felting Machine | Bishop, G.G. | 1861 |
| 32756 | Silk Twisting Machine | DeManiquet, J.A. | 1861 |
| 32770 | Loom Picker | Holbrook, Albert | 1861 |
| 32784 | Combing Machine, Wool | Rawson, Henry | 1861 |
| 33000 | Loom Temple | Levally, Benjamin | 1861 |
| 33037 | Spinning Machine Stop Motion | Hillard, James P. | 1861 |
| 33106 | Basket, Splint | Sherman, S.M. | 1861 |
| 33141 | Thread Dressing, Sewing | Hall, Gardner, Jr. | 1861 |
| 33222 | Yarn Dressing Machine | Whitehill, Hugh | 1861 |
| 33333 | Vegetable Fiber Cleaning Machine | Brody, Charles | 1861 |
| 33356 | Spinning Machine Flyer | Maynard, J.F. | 1861 |
| 33374 | Spinning Machine, Wool | Bloodgood, J.H. | 1861 |
| 33510 | Belting, Endless Woven | Baker, S.W. | 1861 |
| 33569 | Braiding Machine | Cady, Henry | 1861 |
| 33707 | Needle Making Machine | Kaiser, Charles | 1861 |
| 33866 | Flyer | Clark, J.B. | 1861 |
| 33948 | Loom Heddle Varnishing Apparatus | Lairdieson, J.L. | 1861 |

| Patent | Invention | Inventor | Year |
|--------|------------------------------------|----------------------|------|
| 33972 | Carding Machine | Davis, Joseph | 1861 |
| 34088 | Basket, Splint, Grain | Marble, Lansing | 1862 |
| 34141 | Loom, Power | Graichen, William | 1862 |
| 34221 | Spindle Bolster | Steere, E.N. | 1862 |
| 34271 | Loom Shuttle | Schoefield, John F. | 1862 |
| 34451 | Loom Let Off, Positive | Stockwell, Albert | 1862 |
| 34494 | Yarn, Action Of Liquids | Hielmann, Paul | 1862 |
| 34619 | Flax & Hemp Treatment | Comly, John P. | 1862 |
| 34753 | Roving Frame Throstle | Higgins, James | 1862 |
| 34792 | Basket, Fruit | Stray, M.L. | 1862 |
| 35084 | Thread Dressing Machine, Sewing | Daniels, Horace | 1862 |
| 35145 | Spindle | Eaton, James | 1862 |
| 35229 | Loom | Garretson, J.C. | 1862 |
| 35602 | Loom Shuttle | Frink, C.L. | 1862 |
| 35708 | Hackling Machine | Sanford, Gelston | 1862 |
| 35969 | Chenille Making Machine | Canter, William | 1862 |
| 36166 | Loom Harness | Parsons, Henry | 1862 |
| 36177 | Spinning Machine Bobbin Throstle | Stanley, James C. | 1862 |
| 36199 | Knitting Machine | Wilson, Joseph G. | 1862 |
| 36377 | Loom, Wire Cloth | Waters, Charles H. | 1862 |
| 36394 | Clothes Pin | Cone, E.A. | 1862 |
| 36499 | Net Making Machine, Seine | Arnold, Benjamin | 1862 |
| 36550 | Gig Mill | Millar, John C. | 1862 |
| 36697 | Loom Harness Motion, Power | Ayer, D.M. | 1862 |
| 36727 | Wool Cleaning Machine | Platt, John | 1862 |
| 36782 | Bobbin | Hussey, Daniel | 1862 |
| 36986 | Spinning Frame Bolster | Bartlett, Stephen S. | 1862 |
| 37138 | Fabric Manufacture, Palm Leaf | Perrin, Franklin | 1862 |
| 37385 | Chenille Making Machine | Comings, George | 1863 |
| 37541 | Braid Manufacture | Boyd, Amos H. | 1863 |
| 37577 | Loom Skipper Lever | Hathway, G.W. | 1863 |
| 37702 | Spinning Machine Flyer | Pearl, Oliver | 1863 |
| 37759 | Hat Adapter, Head Sizer | Klein, John F. | 1863 |
| 37954 | Loom Temple, Roller | Dutcher, Warren W. | 1863 |
| 37993 | Hat Forming Die | Wilde, Robert | 1863 |
| 38265 | Loom | Smith, O.C. | 1863 |
| 38358 | Embroidering Machine | Heaven, Alfred | 1863 |
| 38363 | Mark Holder for Bales & Etc. | Fitch, Porter | 1863 |
| 39187 | Carding Machine | Whitin, John C. | 1863 |
| 39190 | Bolster, Self Lubricating | Wilmarth, Moses P. | 1863 |
| 39197 | Loom, Circular | Darker, Jr., William | 1863 |
| 39469 | Loom Let Off | Draper, George | 1863 |
| 39557 | Spinning Machine Spindle | Eaton, James | 1863 |
| 39681 | Bobbin | Saunders, Benjamin | 1863 |
| 39714 | Loom Picker | Cady, John | 1863 |
| 39723 | Loom Stop Motion | Draper, George | 1863 |
| 39742 | Picking & Burring Machine | Nesmith, R.D. | 1863 |
| 39759 | Loom, Pile Fabric | Skinner, Halcyon | 1863 |
| 39868 | Netting Stretching & Folding | Van Riper, Jacob A. | 1863 |
| 40049 | Cotton Picker | Kitson, Richard | 1863 |
| 40109 | Labeling Bales | Locke, Edward A. | 1863 |
| 40169 | Spinning Machine Flyer | Hussey, Daniel | 1863 |
| 40685 | Loom | Drummond, John W. | 1863 |
| 40698 | Loom, Jacquard | Mann, Bela A. | 1863 |
| 41218 | Fabric, Knitted | Harwood, George S. | 1864 |
| 41227 | Cloth Napping Machine | Marble, Edwin T. | 1864 |
| 41268 | Spinning Machine Flyer | Aldrich, John H. | 1864 |
| 41297 | Flyer Guide, Manufacturing Machine | Hill, David L. | 1864 |
| 41333 | Spinning Machine Roller | Weild, William | 1864 |
| 41731 | Cotton Treating Machine | Wanklyn, William | 1864 |
| 42048 | Spinning Mule, Self Acting | Lakin, Robert | 1864 |

| Patent | Invention | Inventor | Year |
|--------|-------------------------------------|-------------------------|------|
| 42326 | Vegetable Fur Manufacture | Baumgras, Peter | 1864 |
| 42335 | Loom, Trimming | Valetton, Louis D. | 1864 |
| 42661 | Spinning Wheel Head | Hotchkiss, T.D. | 1864 |
| 42663 | Braiding Machine Thread | Hull, Liverus | 1864 |
| 42812 | Loom | Wright, Edward | 1864 |
| 42860 | Cotton Bale Tag | Locke, Edward A. | 1864 |
| 42982 | Loom, Hair Cloth | Winsor, Joseph S. | 1864 |
| 43182 | Loom Shuttle | Clark, Augustus D. | 1864 |
| 43252 | Loom Heddle Knitting Shuttle | Brown, Darius | 1864 |
| 43287 | Wash Boiler Bottom | Burnham, Charles | 1864 |
| 43467 | Spinning & Reeling Machine | Albright, George | 1864 |
| 43474 | Spool Filling Machine | Breitenstein, William | 1864 |
| 43556 | Loom Shuttle Filler | Ingraham, Thomas | 1864 |
| 43583 | Loom Harness Motion | Holcroft, Henry | 1864 |
| 43777 | Loom Harness Dressing Machine | Kendrick, John | 1864 |
| 43846 | Spinning Machine, Throstle | Gilman, Albert | 1864 |
| 43868 | Loom Take Up Motion | Shaw, L.L. | 1864 |
| 43877 | Loom Shuttle | Wilder, Warren | 1864 |
| 43888 | Loom, Fish Net | Jouannin, Jean | 1864 |
| 43940 | Loom Shuttle | Wilder, Warren | 1864 |
| 44004 | Silk Stretching & Glossing Machine | Leigh, Lewis | 1864 |
| 44016 | Bobbin | Reynolds, Charles H. | 1864 |
| 44052 | Cotton Spooling Machine | Ermen, Godfrey | 1864 |
| 44186 | Loom Harness Weaving Machine | Harris, William | 1864 |
| 44271 | Loom, Jacquard | Wolf, Frederick M. | 1864 |
| 44280 | Basket, Fruit | Carpenter, Henry | 1864 |
| 44283 | Spinning Machine | Cleveland, E.C. | 1864 |
| 44604 | Loom Shuttle | Clark, Thomas | 1864 |
| 44791 | Card, Hand | Ells, Edgar | 1864 |
| 44808 | Loom, Hair Cloth | Lindsley, Isaac | 1864 |
| 45047 | Burring Machine, Wool | Jones, Daniel | 1864 |
| 45107 | Loom, Hair Cloth | Lindsley, Isaac | 1864 |
| 45108 | Spindle, Lubricating | Marshall, James | 1864 |
| 45119 | Clothes Pin | Greenwood, Jeremiah | 1864 |
| 45300 | Spinning Machine Flyer Bearing | Sampson, Blaney E. | 1864 |
| 45629 | Loom, Circular, Cord Covering | Palmer, Isaac E. | 1864 |
| 45682 | Loom Shuttle | Tunstill, William | 1864 |
| 45718 | Spinning Machine Thread Guide | Hurst, E.D. | 1865 |
| 45953 | Thread Winding Apparatus | Crutchett, James | 1865 |
| 45969 | Loom Shuttle Motion | Breitenstein, William | 1865 |
| 46040 | Loom Shuttle | Wilder, Warren | 1865 |
| 46057 | Cord Making Machine | Mathien, Jules O. | 1865 |
| 46381 | Warp Dressing Reed | Nichols, Ambrose J. | 1865 |
| 46397 | Combs For Wool, Flax, Cotton & Etc. | Siccardi, John | 1865 |
| 46433 | Loom, Pile Fabric | Joyot, Jr., Pierre | 1865 |
| 46552 | Hat Napping & Pouncing Machine | Eickemeyer, Rudolf | 1865 |
| 46588 | Spinning Machine | Rich, John | 1865 |
| 46754 | Loom, Pile Fabric | Holt, Samuel | 1865 |
| 46921 | Roving Frame Flyer | Mayor, Thomas | 1865 |
| 47151 | Loom, Buttonhole | Connor, John | 1865 |
| 47195 | Spinning Frame Spindle Bearing | Drake, Mexworth D. | 1865 |
| 47223 | Clothes Pin | Sargeant, Jr., Henry W. | 1865 |
| 47271 | Spindle Bolster, Self Lubricating | Bartlett, Stephen S. | 1865 |
| 47278 | Spindle Bearing, Self Lubricating | Briggs, George W. | 1865 |
| 47301 | Vegetable Fiber, Separating | Heaton, Charles | 1865 |
| 47547 | Spinning Mule & Jack | Goulding, John | 1865 |
| 47658 | Spinning Bobbin | Parks, Levi N. | 1865 |
| 47687 | Loom | Tunstill, William | 1865 |
| 47852 | Knitting Machine Needle | Otis, John | 1865 |
| 48057 | Loom Heddle Frame | Finkle, Milton | 1865 |
| 48154 | Loom Shuttle | Coburn, John H. | 1865 |
| 48662 | Seam Ripper | Converse, F.B. | 1865 |

| Patent | Invention | Inventor | Year |
|--------|-------------------------------------|------------------------|------|
| 48878 | Knitting Machine, Shoe Lace | Westcott, Nataniel | 1865 |
| 48917 | Spinning Machine Throstle & Cap | Eberhard, William | 1865 |
| 49131 | Fabric, Felt | McCracken, Edwin D. | 1865 |
| 49178 | Shears, Flower | Valentine, Samuel W. | 1865 |
| 49280 | Silk Cleaning & Finishing Machine | Kohn, Tobias | 1865 |
| 49582 | Bobbin Winding Machine | Bradford, George S. | 1865 |
| 49643 | Bobbin Shuttle | Mendenhall, Stephen C. | 1865 |
| 49679 | Carding Cylinder Cleaning Machine | Hawley, A.A. | 1865 |
| 49774 | Basket, Grain | Lyman, E.B. | 1865 |
| 49825 | Cord Covering Machine | Buser, John | 1865 |
| 49860 | Spinning Mule, Self Acting | Cumnock, Alexander G. | 1865 |
| 49861 | Spinning Mule, Self Acting | Cumnock, Alexander G. | 1865 |
| 49865 | Cotton Combing Machine | Dimock, Ira | 1865 |
| 49950 | Loom Let Off | Estes, Samuel | 1865 |
| 50024 | Spinning Jack | Moulton, H.J. | 1865 |
| 50041 | Loom, Hand | Seaman, John | 1865 |
| 50116 | Spinning Bobbin | Goulding, John | 1865 |
| 50156 | Loom Let Off | Phillips, Job | 1865 |
| 50204 | Paper Tube Making Machine, Spinning | Innis, William J. | 1865 |
| 50211 | Carding Machine | Leigh, Evan | 1865 |
| 50240 | Spinning Bobbin Holder | Goulding, John | 1865 |
| 50241 | Spinning Bobbin Holder | Goulding, John | 1865 |
| 50311 | Spinning Bobbin Holder | Wright, Edward | 1865 |
| 50369 | Knitting Machine | Lamb, Issac W. | 1865 |
| 50392 | Spool, Yarn Winding & Beaming | Saunders, Benjamin | 1865 |
| 50575 | Thread Spooling Machine | Glover, A.B. | 1865 |
| 50764 | Loom, Lappet | Aspinall, William | 1865 |
| 51038 | Spooling Machine, Tape Loom | Gibbs, J. | 1865 |
| 51047 | Darning Last | Holden, Delia E. | 1865 |
| 51082 | Warp Dressing Machine | Potter, William | 1865 |
| 51095 | Loom, Embroidered Fabric | Spitzli, J.G. | 1865 |
| 51333 | Carding Machine | Marsden, Harry | 1865 |
| 51340 | Spinning Bobbin | Murdock, William | 1865 |
| 51436 | Cloth, Weft of Hair, Grass, Etc. | Downie, James | 1865 |
| 51577 | Knitting Machine Needle | Fifield, Levi W. | 1865 |
| 51618 | Knitting Machine | Pepper, John | 1865 |
| 51668 | Embroidery, Imitation | Muller, Bernhard | 1865 |
| 51794 | Loom Harness | Brown, D.C. | 1866 |
| 51887 | Spinning Bobbin | Wilbur, Benjamin | 1866 |
| 51891 | Wool Oiling Machine | Campbell, Thomas A. | 1866 |
| 51900 | Washing Machine, Wool | Murkland, William | 1866 |
| 51907 | Thread Winding Machine | Weild, William | 1866 |
| 51915 | Rope Making Machine | Blackie, John | 1866 |
| 51930 | Spinning Mule, Self Acting | Dam, Lorenzo | 1866 |
| 51977 | Washing Machine | Stafford, A.J. | 1866 |
| 52192 | Loom, Narrow Ware | Oldfield, Benjamin | 1866 |
| 52306 | Loom, Hand | McDowell, C.L. | 1866 |
| 52378 | Cloth Measuring Machine | Benham, James I. | 1866 |
| 52382 | Cord Winding Machine | Brown, Edward | 1866 |
| 52506 | Spinning Machine, Flax | Skeels, Levi | 1866 |
| 52718 | Weaving Whip Handle Coverings | Hull, Liveras | 1866 |
| 52780 | Loom Let Off | Wright, Edward | 1866 |
| 52825 | Carpent | Crossley, Thomas | 1866 |
| 52914 | Basket, Grain | Van Rider, G.Z. | 1866 |
| 53350 | Loom Shuttle Motion | Schottenfels, Julius | 1866 |
| 53398 | Loom, Hand | Branson, James L. | 1866 |
| 53423 | Loom Temple, Roller | Dutcher, Warren W. | 1866 |
| 53449 | Spinning Machine Flyer | Hyde, Charles | 1866 |
| 53530 | Knitting Machine | Goodman, Joseph | 1866 |
| 53665 | Bobbin, Weft | Pearl, Oliver | 1866 |
| 53746 | Winding Machine, Yarn | Orr, Jr., William | 1866 |
| 53892 | Loom Picker Staff Motion | Sherman, Peleg | 1866 |

| Patent | Invention | Inventor | Year |
|--------|------------------------------------|------------------------|------|
| 54066 | Loom Let Off | Estes, Samuel | 1866 |
| 54067 | Spinning Machine Roller | Fuller, Jim B. | 1866 |
| 54269 | Loom Temple, Roller | Dornbirn, J. Mathis | 1866 |
| 54271 | Thread Preparation, Printing | Vigoreux, Stanislas | 1866 |
| 54445 | Loom Shuttle & Bobbin | Unverzagt, Clemens | 1866 |
| 54465 | Spinning Bobbin | Ferguson, Levi | 1866 |
| 54493 | Spinning Machine, Vertical Hand | Blayney, James | 1866 |
| 54661 | Loom Harness Motion | Anderson, A.L. | 1866 |
| 54704 | Spinning Machine | Eberhard, William | 1866 |
| 54742 | Loom, Narrow Ware | Knowles, Lucius J. | 1866 |
| 54870 | Fabric, Pile Process | Crossley, James W. | 1866 |
| 55010 | Loom Heddle | Jenks, Barton | 1866 |
| 55103 | Knitting Machine, Straight | Hinkley, Jonas | 1866 |
| 55239 | Braiding Yarn Delivery Apparatus | Chambers, George I. | 1866 |
| 55308 | Knitting Machine Stop Motion | Kay, Edward | 1866 |
| 55434 | Knitting Machine | Wilson, James G. | 1866 |
| 55580 | Braiding Machine Carrier | Drown, Otis E. | 1866 |
| 55959 | Loom Picker Motion | Paterson, George W. | 1866 |
| 55968 | Knitting Machine, Circular | Williams, H.L. | 1866 |
| 56077 | Loom Harness Motion | McGregor, W.W. | 1866 |
| 56081 | Bag, Woven | Moore, Sr., Charles | 1866 |
| 56220 | Rope Making Machine, Wire | Hazzard, F. | 1866 |
| 56258 | Twisting & Winding Machine | Parmelee, Homer | 1866 |
| 56372 | Cordage Machine | Cobb, Charles | 1866 |
| 56532 | Spinning Jack | Dawson, Gilbreth | 1866 |
| 56612 | Securing Buttons To Garments | Roberts, John W. | 1866 |
| 56829 | Spinning Mule, Self Acting | Sutherland, James | 1866 |
| 56913 | Loom Picker | Elliott, Hosea | 1866 |
| 56922 | Spinning Mule & Jack | Goulding, John | 1866 |
| 56928 | Scissors | Grier, W. W. | 1866 |
| 57065 | Spinning Flyer | Bailey, B.A. | 1866 |
| 57201 | Braiding Machine | Sloan, Thomas J. | 1866 |
| 57226 | Loom, Hand | Walker, W.B. | 1866 |
| 57300 | Loom Shuttle Binder | Duckworth, Christopher | 1866 |
| 57330 | Cop Winding Machine | Jenks, Barton H. | 1866 |
| 57336 | Spinning Machine, Domestic | Koeller, H. | 1866 |
| 57444 | Loom Harness Motion | Scofield, Levi | 1866 |
| 57659 | Fabric, Woven | Baker, Seth W. | 1866 |
| 57938 | Roving Frame Flyer | Mayor, Thomas | 1866 |
| 58015 | Spinning Machine, Hand | Wilson, Dickson | 1866 |
| 58024 | Loom | Kershaw, John B. | 1866 |
| 58046 | Spinning Frame Spindle | Atwood, John E. | 1866 |
| 58391 | Hat Making | Doubleday, William E. | 1866 |
| 58434 | Silk Twisting & Stretching Machine | Kohn, Tobias | 1866 |
| 58464 | Loom, Narrow Ware | Oldfield, Benjamin | 1866 |
| 58497 | Floor Covering Manufacture | Spencer, James H. | 1866 |
| 58611 | Warp Dressing Frame | Damon, Alexander M. | 1866 |
| 58865 | Loom, Hand | Mendenhall, Daniel | 1866 |
| 59024 | Loom Let Off | Hussey, Daniel | 1866 |
| 59040 | Hook Pins, Wearing Apparel | Lindsay, Alexander | 1866 |
| 59106 | Spinning Direct From Carding | Welham, Thomas | 1866 |
| 59120 | Fishing Line Making Machine | Brooks, Peter | 1866 |
| 59132 | Loom Harness Motion, Hand | Mendenhall, Stephen | 1866 |
| 59259 | Cotton Preparing Machine | Pilson, Robert | 1866 |
| 59613 | Loom, Narrow Weave | Knowles, L.J. | 1866 |
| 59801 | Reel | McLean, Daniel H. | 1866 |
| 59959 | Piano-Forte Cover, Ornamenting | Burgess, J.F. | 1866 |
| 59973 | Spinning Machine | Crowfoot, Joseph | 1866 |
| 59987 | Loom Shedding Motion | Ellis, Henry A. | 1866 |

| Patent | Invention | Inventor | Year |
|--------|------------------------------------|----------------------|------|
| 60103 | Yarn Drying Machine | Whitehill, Hugh | 1866 |
| 60202 | Spinning Machine, Hand | Leach, William J. | 1866 |
| 60305 | Loom, Hand | Whitehead, John | 1866 |
| 60386 | Carding Machine Oiling Apparatus | Kirk, P.C. | 1866 |
| 60407 | Tatting Shuttle Winder | Moore, James | 1866 |
| 60627 | Clothes Pin | Goble, T.L. | 1866 |
| 60704 | Spinning Machine Spindle & Bolster | Draper, George | 1867 |
| 60802 | Spindle, Ring | Sterry, Francis A. | 1867 |
| 61010 | Spindle Bolster, Self Lubricating | Jenks, Barton H. | 1867 |
| 61050 | Loom Temple | Chapman, Nathan | 1867 |
| 61376 | Cloth Napping Machine | Zschille, Anton | 1867 |
| 61439 | Loom Stop Motion | Loiseau, Alphonse J. | 1867 |
| 61518 | Spinning Frame Spindle Bolster | Cottrell, Jesse D. | 1867 |
| 61520 | Cloth Finishing Process | Crossley, Thomas | 1867 |
| 61535 | Loom Shuttle, Narrow Ware | Hamilton, John Y. | 1867 |
| 61588 | Coverlet | Wettstein, Henry | 1867 |
| 61630 | Knitting Machine Needle | Miller, Job | 1867 |
| 61665 | Silk Thread Cleaning Apparatus | Jeannotat, Jules | 1867 |
| 61754 | Loom Picker Staff Mechanism | Mortimer, Samuel | 1867 |
| 61767 | Loom | Schofield, James | 1867 |
| 61915 | Spindle & Top Roller Oiler | Barber, Samuel H. | 1867 |
| 62087 | Loom Picker Cushion | Thorn, William J. | 1867 |
| 62168 | Loom Let Off | Walker, Richard | 1867 |
| 62239 | Knitting Machine Take Up | Ward, Samuel | 1867 |
| 62240 | Clothes Pin | Ward, W.G. | 1867 |
| 62370 | Warp Dressing Machine | Saunders, Benjamin | 1867 |
| 62398 | Indicator, Rope & Cloth | Couse, Charles | 1867 |
| 62791 | Loom | Weber, John R. | 1867 |
| 62917 | Carding Machine Stop Motion | Ainsworth, W.E. | 1867 |
| 63143 | Loom, Hand | Deen, J.M. | 1867 |
| 63261 | Hat Pouncing Machine | Lubiaux, John L. | 1867 |
| 63353 | Loom Picker Motion, Parallel | Zwicki, Caspar | 1867 |
| 63372 | Loom Temple | Dutcher, Warren W. | 1867 |
| 63393 | Clothes Pin | Johnson, Charles C. | 1867 |
| 63408 | Rope Making Machine | Maxson, Horace | 1867 |
| 63561 | Spindle, Self Oiling | Rabbeth, F.J. | 1867 |
| 63622 | Loom, Power | Earnshaw, John | 1867 |
| 63631 | Loom, Pile Fabric | Hartley, William G. | 1867 |
| 63759 | Clothes Pin | Smith, David M. | 1867 |
| 63813 | Spinning Bobbin, Metallic | Rice, William B. | 1867 |
| 63872 | Loom Temple | Dutcher, Warren | 1867 |
| 64004 | Card, Hand | Ells, George F. | 1867 |
| 64147 | Loom Let Off | Richardson, George | 1867 |
| 64241 | Knitting Machine | McNary, William H. | 1867 |
| 64438 | Spinning Machine, Hand | Mendenhall, Nathan | 1867 |
| 64466 | Cloth Folding Machine | Wheeler, Jr., Walter | 1867 |
| 64525 | Loom | Graham, John | 1867 |
| 64572 | Knitting Machine, Rotary | Roberts, Mark L. | 1867 |
| 64800 | Spinning Machine Spindle | Catteau, Joseph M.R. | 1867 |
| 64900 | Knitting Machine, Straight | Paget, Arthur | 1867 |
| 64944 | Loom Heddle, Wire | Brown, Darius | 1867 |
| 65530 | Spinning Machine Lubricator | Bancroft, Joseph B. | 1867 |
| 65576 | Tatting Shuttle Winder | Jones, H.P. | 1867 |
| 66017 | Spinning Machine Spindle | Gilman, Albert H. | 1867 |
| 66091 | Spinning Machine Spindle Bearing | Jenks, Barton H. | 1867 |
| 66523 | Clothes Pin | Seaver, Ebenezer | 1867 |
| 66574 | Loom, Jacquard, Needle | Earnshaw, John | 1867 |
| 66827 | Loom Harness Motion | Gebhart, John F. | 1867 |
| 66996 | Loom Picker | Smith, Owen B. | 1867 |
| 67081 | Spindle Step | Sterry, Francis A. | 1867 |
| 67100 | Clothes Pin | Brinkerhoff, A.W. | 1867 |
| 67263 | Knitting Machine | Carey, Augustus C. | 1867 |

| Patent | Invention | Inventor | Year |
|--------|------------------------------------|------------------------|------|
| 67559 | Fiber Cleaning & Bleaching Machine | Loiseau, A.J. | 1867 |
| 67821 | Spindle Lubricator | Underwood, R.P. | 1867 |
| 68185 | Spinning, Ring | Hall, Henry G. | 1867 |
| 68245 | Cloth Measuring Instrument | Shinn, Thornton A. | 1867 |
| 68425 | Knitting Machine | Essick, S.V. | 1867 |
| 68429 | Needle Making Machine | Fowler, Taddeus | 1867 |
| 68438 | Swift | Haskell, Almore | 1867 |
| 68464 | Carding Machine Condenser Roll | Stafford, Edwin | 1867 |
| 68831 | Reel | Balch, F.A. | 1867 |
| 68969 | Loom, Hand | Dugdale, Thomas A. | 1867 |
| 69002 | Spinning Machine | Lazier, John | 1867 |
| 69021 | Clothes Hook | Putnam, Silas S. | 1867 |
| 69047 | Loom, Hand | Thompson, T.G. | 1867 |
| 69098 | Dyeing & Embossing Table Cover | Jack, Alexander | 1867 |
| 69101 | Winding & Delivering, Yarn | Kershaw, Robert | 1867 |
| 69159 | Thread Finishing Machine | Barbour, Samuel | 1867 |
| 69167 | Spinning Machine, Hand | Blackwood, John | 1867 |
| 69188 | Spinning Mule, Self Acting | Crossman, Horace | 1867 |
| 69205 | Carding Machine Condenser Tube | Germain, William | 1867 |
| 69211 | Spinning Machine | Hoover, George | 1867 |
| 69277 | Hat Pouncing Machine | Vail, P.W. | 1867 |
| 69320 | Loom | Cottrell, Jesse D. | 1867 |
| 69398 | Clothes Pin | Britton, R.G. | 1867 |
| 69472 | Loom Picker | Nichols, Bradword W. | 1867 |
| 69515 | Loom, Hand | Very, A.O. | 1867 |
| 69579 | Reel | Palmer, Josiah Foreman | 1867 |
| 69673 | Loom, Hand | Hunt, Henry | 1867 |
| 69728 | Spinning Machine, Domestic | Voegtli, Franz | 1867 |
| 69990 | Spinning Machine, Hand | Hart, James M. | 1867 |
| 70026 | Loom Shuttle | Sawyer, F.W. | 1867 |
| 70171 | Loom Shuttle | Crandall, George L. | 1867 |
| 70186 | Loom, Hand | Firestone, G.W. | 1867 |
| 70253 | Loom Tension Regulator | Painter, Frank | 1867 |
| 70308 | Loom Picker | Wright, Edward | 1867 |
| 70402 | Spinning Jack | Briggs, H.B. | 1867 |
| 70466 | Rope Making Machine | Perkins, Howard | 1867 |
| 70622 | Spinning Wheel | Rowe, Jonas H. | 1867 |
| 70623 | Loom, Rotary Cam | Sargent, Ransom | 1867 |
| 70685 | Rope Laying And Twisting Machine | Bazine, Stephen | 1867 |
| 70853 | Reel And Swift | Hutson, Ezra | 1867 |
| 71001 | Carding Machine Feeder | Harwood, George S. | 1867 |
| 71127 | Spindle Bolster | Brown, John E. | 1867 |
| 71299 | Loom | Hainsworth, William | 1867 |
| 71369 | Roving Machine Belt Shifter | Edwards, James | 1867 |
| 71371 | Bobbin | Fiske, Charles H. | 1867 |
| 71413 | Loom Shuttle Threading Mechanism | Ripley, Lewis | 1867 |
| 71541 | Loom Temple | Shaw, Edgar F. | 1867 |
| 71809 | Spindle Bolster | Sterry, Francis A. | 1867 |
| 71852 | Loom, Palm Leaf | Chandler, George W. | 1867 |
| 71897 | Spinning Wheel | Miller, Henry | 1867 |
| 72005 | Fabric, Woven | Earnshaw, John | 1867 |
| 72115 | Knitting Machine Take Up | Teachout, James | 1867 |
| 72296 | Knitting Machine, Circular | Hollen, W.H.H. | 1867 |
| 72457 | Loom Shuttle | Crompton, George | 1867 |
| 72531 | Spindle Step | Noble, George H. | 1867 |
| 72800 | Swift | Coffin, Eben M. | 1867 |
| 72967 | Loom Harness | Brown, Darius C. | 1868 |
| 72987 | Loom Let Off, Automatic | Draper, George | 1868 |
| 73044 | Hat Pouncing Machine | Richardson, John C. | 1868 |
| 73131 | Braiding Machine, Whip | Slayton, Phineas L. | 1868 |
| 73160 | Sluice Blanket | Block, Abraham | 1868 |
| 73185 | Bobbin | Holmes, A.P. | 1868 |

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|--------|-----------------------------------|------------------------|------|
| 73266 | Loom, Hand | Strong, Oliver | 1868 |
| 73267 | Roving Frame | Thompson, William H. | 1868 |
| 73269 | Thread Polishing Machine | Trapp, William W. | 1868 |
| 73353 | Loom Let Off | Marden, Jeremiah A. | 1868 |
| 73512 | Carpet Manufacture | Crossley, Thomas | 1868 |
| 73727 | Fabric, Felt | Johnson, Moses A. | 1868 |
| 73852 | Loom, Hand | Unverzagt, Clemens | 1868 |
| 73955 | Loom Shuttle | Cross, E. | 1868 |
| 73962 | Loom Cloth Indicator | Fellows, Alfred | 1868 |
| 74013 | Loom Shuttle | Scofield, Levi | 1868 |
| 74266 | Knitting Machine | Abel, William H. | 1868 |
| 74402 | Spinning Bobbin | Morse, Cyrus B. | 1868 |
| 74416 | Spinning Machine, Throstle | Pearl, Oliver | 1868 |
| 74585 | Spinning Mule | Paley, John | 1868 |
| 74636 | Cloth Creasing Frame | Todd, A.W. | 1868 |
| 74644 | Silk Cleaner | Watson, W.G. | 1868 |
| 74819 | Loom Harness Motion | Greenhalgh, Sr., James | 1868 |
| 74832 | Thread Polishing Machine | Kerr, Peter | 1868 |
| 74853 | Card Setting Machine | Russell, James | 1868 |
| 74874 | Carding Cylinder Stripper | Abbott, F.M. | 1868 |
| 75063 | Spinning Machine, Hand | Silvis, Anthony W. | 1868 |
| 75122 | Fulling Machine, Hat Bodies | Gattaneo, Angelo | 1868 |
| 75169 | Cotton Lapper Brake | Kitson, Richard | 1868 |
| 75259 | Printing Machine, Yarn | Forrest, John | 1868 |
| 75290 | Carding Machine Rack | Monroe, Lang | 1868 |
| 75305 | Loom Pick, Overhead | Shaw, James | 1868 |
| 75522 | Loom Shuttle | Chase, Daniel G. | 1868 |
| 75545 | Loom Shuttle Binder | Haskins, Franklin | 1868 |
| 75610 | Spinning Machine, Ring & Traveler | Wattles, Joseph W. | 1868 |
| 76036 | Loom Harness Motion | Bachelder, John | 1868 |
| 76042 | Yarn Manufacture, Clouded | Bentley, John W. | 1868 |
| 76043 | Reel | Bradway, George | 1868 |
| 76090 | Loom Shuttle | Marble, Ezra P. | 1868 |
| 76109 | Silk Cleaning Knife | Singleton, George | 1868 |
| 76111 | Card, Hand | Sprague, E.L. | 1868 |
| 76299 | Spinning Machine | Burdge, J.E. | 1868 |
| 76406 | Loom Shedding Motion | Crompton, George | 1868 |
| 76476 | Loom, Hair Cloth | Lindsley, Isaac | 1868 |
| 76547 | Clothes Pin | Taylor, A.L. | 1868 |
| 76604 | Loom Shuttle | Chase, Silas E. | 1868 |
| 76636 | Loom Let Off | Hussey, Daniel | 1868 |
| 76783 | Fabric, Floor Matting | Lindsley, Isaac | 1868 |
| 76798 | Spinning Frame | Morse, Cyrus B. | 1868 |
| 76854 | Knitting Machine | Ward, Benjamin | 1868 |
| 76895 | Card Stripping Machine Cam | Crockett, Seldon | 1868 |
| 77030 | Butter Tub | Gilbert, D.A. | 1868 |
| 77228 | Chair Seat | Watkins, G.A. | 1868 |
| 77424 | Tag Fastener | Weeden, William N. | 1868 |
| 77446 | Loom Harness | Brown, Darius C. | 1868 |
| 77498 | Loom, Garment | Leather, Samuel | 1868 |
| 77566 | Spindle | Atwood, Eugene | 1868 |
| 77619 | Loom, Needle | Jackson, W.H. | 1868 |
| 77713 | Loom Heddle Making Machine, Wire | Brown, Darius | 1868 |
| 78013 | Spindle Bearing | Richards, John | 1868 |
| 78085 | Spinning Frame | Haythorn, Frederick | 1868 |
| 78229 | Loom Shuttle | Paine, Elias A. | 1868 |
| 78399 | Cloth Measure | Shotwell, Caleb L. | 1868 |
| 78411 | Braiding Machine Carrier | Avery, Dexter | 1868 |
| 78441 | Loom Temple | Dutcher, Warren W. | 1868 |
| 78453 | Warping Frame | Howard, C.H. | 1868 |
| 78660 | Fulling Mill | Gessner, Ernst | 1868 |
| 78779 | Loom, Jacquard | Wolf, Moritz | 1868 |

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|--------|----------------------------------|-------------------------|------|
| 78968 | Drawing & Twisting Head | Houghtaling, Ambrose L. | 1868 |
| 79483 | Loom Shuttle | Lafin, Perley | 1868 |
| 79490 | Loom Shuttle | Metcalf, James A. | 1868 |
| 79556 | Loom Shuttle | Damon, Alexander H. | 1868 |
| 79557 | Loom Shuttle | Damon, Alexander H. | 1868 |
| 79687 | Bobbin | Ramsdell, W.H. | 1868 |
| 79908 | Loom | Humaston, John P. | 1868 |
| 79923 | Loom, Palm Leaf | Smith, John C. | 1868 |
| 80099 | Knitting Machine | Wade, Alfred J. | 1868 |
| 80121 | Knitting Machine | Bickford, Dana | 1868 |
| 80134 | Chenille Making Machine | Canter, William | 1868 |
| 80529 | Loom Beam | Bailey, Benjamin A. | 1868 |
| 80586 | Carding Machine Tooth Removal | Baham, John A. | 1868 |
| 80781 | Tatting Shuttle | Goodwin, Lizzie C. | 1868 |
| 80783 | Fly Frame Flyer | Streeter, James S. | 1868 |
| 80810 | Loom | Crompton, George | 1868 |
| 80863 | Spinning Machine | Hooper, James | 1868 |
| 80866 | Knitting Machine, Circular | Larkin, Samuel | 1868 |
| 80876 | Loom Harness Mechanism | Plummer, Osgood | 1868 |
| 80885 | Loom Stop Motion | Switzer, John J. | 1868 |
| 80949 | Spinning Machine | Harris, Charles J. | 1868 |
| 80965 | Knitting Machine | Johnstone, George | 1868 |
| 81201 | Spindle Step | Pattee, Samuel L. | 1868 |
| 81344 | Loom Shuttle | Clark, Augustus D. | 1868 |
| 81347 | Loom Shedding Motion | Crompton, George | 1868 |
| 81443 | Loom, Pile Carpet | Weild, William | 1868 |
| 81464 | Punch, Leather or Cloth | Bedford, Alma | 1868 |
| 81465 | Punch, Rotary | Bedford, Alma | 1868 |
| 81577 | Cord Covering Machine | Bachelor, John | 1868 |
| 81578 | Loom Shuttle | Baggett, Edward | 1868 |
| 81702 | Vegetable Fiber, Hair Substitute | Staufen, Werner | 1868 |
| 81753 | Rope Making Machine | Clark, Charles | 1868 |
| 81826 | Warp Dressing Machine | Saunders, Benjamin | 1868 |
| 81834 | Braid | Smith, J. Hunt | 1868 |
| 81845 | Cord Covering Machine | Turner, John | 1868 |
| 81865 | Loom Shuttle Box Motion | Ashworth, John | 1868 |
| 82090 | Loom Shuttle | Clough, Nathan | 1868 |
| 82114 | Clothes Pin | Haigney, John | 1868 |
| 82335 | Pinking Tool | McIntosh, John L. | 1868 |
| 82661 | Thread Polishing | Trapp, William W. | 1868 |
| 82684 | Loom Temple | Briggs, Lucius | 1868 |
| 83019 | Cloth, Wire | Baggoth, Thomas | 1868 |
| 83179 | Card Clothing Manufacture | Lawrence, Edwin S. | 1868 |
| 83267 | Loom Filling Fork | Duce, William G. | 1868 |
| 83270 | Reel | Fenner, John S. | 1868 |
| 83331 | Loom Shuttle Spindle | Smith, Charles E. | 1868 |
| 83354 | Spinning Bobbin & Thread Holder | Luders, Thomas L. | 1868 |
| 83375 | Spinning Machine | Goulding, John | 1868 |
| 83395 | Fabric Singeing Machine | McEwen, Peter | 1868 |
| 83436 | Speeder Flyer | Aldrich, John H. | 1868 |
| 83559 | Loom Shuttle | Smith, Charles E. | 1868 |
| 83635 | Bobbin | Hubbard, Horace J. | 1868 |
| 83723 | Burring Machine, Wool | Nichols, John | 1868 |
| 83970 | Spinning Machine, Hand | Johnson, James | 1868 |
| 84261 | Spinning Wheel | Cole, Charles L. | 1868 |
| 84423 | Loom | Jenks, Barton H. | 1868 |
| 84424 | Reeling Machine | Jenks, Barton H. | 1868 |
| 84483 | Cloth Napping Machine | Earnshaw, John | 1868 |
| 84506 | Cord Covering Machine | Palmer, Jr., William H. | 1868 |
| 84578 | Cloth Cutting, Parceling | Raynard, Joseph H. | 1868 |
| 84599 | Hat Felting Machine | Whipple, Milton D. | 1868 |
| 84753 | Loom, Lappet | Newton, Frederick W. | 1868 |

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|--------|-------------------------------|-----------------------|------|
| 84764 | Bobbin Winder, Reverse Motion | Richardson, George | 1868 |
| 84793 | Warp Dressing, Dresser Capper | Boyden, W.H. | 1868 |
| 85427 | Scissors | Bull, James | 1868 |
| 85546 | Knitting Machine | Tangeman, William A. | 1869 |
| 85765 | Knitting Machine | Reiff, Jacob D. | 1869 |
| 85969 | Loom Shuttle | Simpson, Augustus | 1869 |
| 86078 | Burring Machine, Wool | Jones, Daniel | 1869 |
| 86156 | Spinning Machine, Self Acting | Holcroft, Henry | 1869 |
| 86211 | Carding Machine | Cleveland, Edwin C. | 1869 |
| 86233 | Loom, Wire Cloth | Kittinger, Levi | 1869 |
| 86445 | Carpet Rag Looper | Price, George L. | 1869 |
| 86483 | Loom Shuttle | Williams, Norman A. | 1869 |
| 86642 | Braiding Machine | Butler, James D. | 1869 |
| 86651 | Loom, Pile Fabric | Davis, Ezekiel K. | 1869 |
| 86719 | Drawing Frame Regulator | Whitton, Samuel J. | 1869 |
| 86805 | Loom, Power | Bigelow, Erastus B. | 1869 |
| 86806 | Loom, Ingrain Carpet | Bigelow, Erastus B. | 1869 |
| 86973 | Yarn Guide and Cleaner | Dakin, A.C. | 1869 |
| 87005 | Thread Polishing & Dressing | Semple, Jr., Samuel | 1869 |
| 87113 | Reel And Swift | Ricker, Wentworth | 1869 |
| 87138 | Spinning Jack | Brothers, Oliver | 1869 |
| 87377 | Spinning Machine | Speight, John | 1869 |
| 87616 | Loom Shuttle Mechanism | Ashworth, John | 1869 |
| 87620 | Fringe Twisting Machine | Barton, Edwin | 1869 |
| 87763 | Felting Machine | Eickemeyer, Rudolf | 1869 |
| 87764 | Felting Machine | Eickemeyer, Rudolf | 1869 |
| 87877 | Spinning Machine | Sayles, Albert L. | 1869 |
| 88027 | Knitting Machine | Franz, William | 1869 |
| 88322 | Loom Stop Motion | Milroy, George E. | 1869 |
| 88365 | Loom Take Up | Carstaedt, Hugo | 1869 |
| 88390 | Clothes Pin | Johnson, Peter | 1869 |
| 88503 | Loom | Oldfield, Benjamin | 1869 |
| 88556 | Spinning Machine Spindle Step | Draper, George | 1869 |
| 88576 | Braiding Machine | Mason, George | 1869 |
| 88742 | Burring Cylinder | Sargent, Charles G. | 1869 |
| 88845 | Loom Picker | Carroll, A.H. | 1869 |
| 88897 | Loom Shuttle Holder | Parmenter, Charles H. | 1869 |
| 88996 | Spinning Ring & Traveler | Welham, Thomas | 1869 |
| 89011 | Loom | Bigelow, Erastus B. | 1869 |
| 89012 | Loom Stop Mechanism | Bigelow, Erastus B. | 1869 |
| 89017 | Spinning Frame | Briggs, H. Beaumont | 1869 |
| 89035 | Copying Press | Gage, George | 1869 |
| 89290 | Twisting & Drawing Heads | Chabot, Cyprien | 1869 |
| 89420 | Washing Machine, Wool | McNaught, John | 1869 |
| 89548 | Spinning Machine Spindle Step | Blake, Ezekiel | 1869 |
| 89561 | Loom Weft Stop | Cottrell, Jesse D. | 1869 |
| 89807 | Spinning Mule | Stockwell, Albert | 1869 |
| 89854 | Yarn Doubling Stop Mechanism | Clark, Isaac W. | 1869 |
| 89984 | Spinning Machine, Hand | Grant, Bellville A. | 1869 |
| 90085 | Loom Harness Motion, Fancy | Duckworth, John C. | 1869 |
| 90133 | Loom Temple, Lubricating | Stimpson, Edward S. | 1869 |
| 90378 | Roving Frame | Morgan, Eustis P. | 1869 |
| 90633 | Felting Machine | Brisco, Harvey | 1869 |
| 91032 | Fly Frame | Luscomb, Job G. | 1869 |
| 91050 | Loom Stop Motion | Switzer, John J. | 1869 |
| 91214 | Knitting Machine, Straight | Crane, Thomas | 1869 |
| 91229 | Combing Cotton Feeding Device | Hadley, Charles F. | 1869 |
| 91431 | Loom Harness Mechanism | Gebhart, John F. | 1869 |
| 91498 | Cord Covering Machine | Turner, John | 1869 |
| 91653 | Twine Making Machine | McIntire, James | 1869 |
| 91729 | Felting Machine | Eickemeyer, Rudolf | 1869 |

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| 91730 | Hat Stretching Machine | Eickemeyer, Rudolf | 1869 |
| 91822 | Indicator, Cloth Manufacturing, Etc. | Brown, William H. | 1869 |
| 91888 | Loom Reed | Whitcomb, Benjamin F. | 1869 |
| 92167 | Knitting Machine, Circular | Cole, Charles G. | 1869 |
| 92189 | Speeder Bobbin Skewer | Harris, Cyrus | 1869 |
| 92218 | Yarn Evener | Smith, George S. | 1869 |
| 92328 | Thread Holder, Doffing | Luders, Thomas L. | 1869 |
| 92432 | Spool | Doran, Michael F. | 1869 |
| 92523 | Loom | Gadd, William | 1869 |
| 92647 | Spindle Bolster | Richards, Isaac P. | 1869 |
| 92784 | Warp Dressing Machine | Boyden, William H. | 1869 |
| 92830 | Spindle Stopping Device | Huret, Eugene | 1869 |
| 92856 | Loom Shuttle Box Motion | Marsden, John | 1869 |
| 92859 | Speeder, Spinning & Twisting | Mayor, Thomas | 1869 |
| 92870 | Rope Making Machine, Wire | Morgan, Charles H. | 1869 |
| 92890 | Loom Temple | Simpson, Joseph | 1869 |
| 92940 | Spinning Bobbin | Crowell, John H. | 1869 |
| 92944 | Silk Winding Stop Motion | Dunham, P. | 1869 |
| 92958 | Spinning Mule | Greene, C.J. | 1869 |
| 92960 | Cord Making Machine | Guest, William | 1869 |
| 92995 | Knitting Machine, Lace | Osborne, George | 1869 |
| 93008 | Knitting Machine | Roberts, Mark L. | 1869 |
| 93254 | Thread Spooling Machine | Wade, Asel M. | 1869 |
| 93441 | Loom Take Up | Holmes, George H. | 1869 |
| 93539 | Loom, Galloon | Kemper, Jacob | 1869 |
| 93608 | Loom Shuttle | Fiske, Charles H. | 1869 |
| 93633 | Spindle & Bobbin Tube | McFarland, Alexander | 1869 |
| 93799 | Loom Harness Shedding Mechanism | Bigelow, Erastus B. | 1869 |
| 93800 | Loom, Pile Fabric | Bigelow, Erastus B. | 1869 |
| 93836 | Hat Pouncing Machine | Richardson, John C. | 1869 |
| 94166 | Cloth Tentering & Drying Machine | Avery, Andre | 1869 |
| 94218 | Knitting Machine Stop Motion | Kennedy, John | 1869 |
| 94571 | Loom Shedding Motion | Crompton, George | 1869 |
| 94640 | Spindle & Flyer | Pirrad, Jean Joseph J. | 1869 |
| 94752 | Drawing Frame | Hussey, Oliver P. | 1869 |
| 94873 | Loom Shedding Motion | Crompton, George | 1869 |
| 94939 | Felting Machine | Blackham, Job W. | 1869 |
| 95034 | Bobbin Winding Machine | Morrill, Franklin H. | 1869 |
| 95112 | Braiding Let Off & Tension | Horstman, William J. | 1869 |
| 95145 | Loom, Fringe | Roth, George | 1869 |
| 95186 | Embroidering Machine | Berger, Hermann | 1869 |
| 95198 | Loom Harness & Heddle | Corey, Alfred B. | 1869 |
| 95221 | Loom Harness Mechanism | Gibboney, A.F. | 1869 |
| 95314 | Loom Temple, Roller Jaw | Burns, William H. | 1869 |
| 95456 | Spinning Machine Spindle Bearing | Fuller, Jim B. | 1869 |
| 95632 | Reel | Barker, James H. | 1869 |
| 95767 | Drawing Frame Stop Motion | Casey, James S. | 1869 |
| 95775 | Carpet | Crossley, Thomas | 1869 |
| 95776 | Carpet, Felted Fabric | Crossley, Thomas | 1869 |
| 96202 | Cotton Cleaning Machine | Clement, Lewis T. | 1869 |
| 96238 | Loom, Hand | Jones, Abraham | 1869 |
| 96310 | Thread Holder & Cutter | Cleary, John | 1869 |
| 96556 | Carding Machine | Dempster, James | 1869 |
| 96564 | Loom, Tape | Duckworth, James | 1869 |
| 96619 | Spinning Machine, Hand | Rice, James | 1869 |
| 96646 | Mangle | Westwick, James B. | 1869 |
| 96676 | Loom Shuttle | Crompton, George | 1869 |
| 96677 | Loom Shuttle | Crompton, George | 1869 |
| 96937 | Spinning Machine, Hand | Matheny, Chelton | 1869 |
| 97041 | Wood Pulp Machine | Burghardt, Frederick | 1869 |
| 97106 | Loom, Ingrain Carpet | Murkland, William | 1869 |
| 97147 | Loom Shuttle Spindle | Allen, N.L. | 1869 |

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| 97158 | Loom | Branson, Jessie L. | 1869 |
| 97175 | Loom | Duckworth, George | 1869 |
| 97178 | Hat Pouncing Machine | Eickemeyer, Rudolf | 1869 |
| 97256 | Loom Shuttle Spindle | Wheeler, Henry H. | 1869 |
| 97434 | Fabric, Method of Weaving | Owens, John | 1869 |
| 97721 | Pleating Machine | Sterns, Simon | 1869 |
| 97836 | Basket, Reticule Wicker | Venet, Joseph | 1869 |
| 97882 | Loom Shuttle | Coburn, John H. | 1869 |
| 97895 | Loom Temple | Dutcher, Warren W. | 1869 |
| 98133 | Bolster Lubricator | Wattles, Joseph | 1869 |
| 98135 | Spinning Machine, Hair & Flax | Wisdom, Philip | 1869 |
| 98188 | Loom Shuttle Check | Pickman, David | 1869 |
| 98254 | Spinning Jack Register | Greenwood, Henry | 1869 |
| 98491 | Rope Making Machine | Hale, Bernice | 1870 |
| 98500 | Knitting Machine | House, Henry A. | 1870 |
| 98507 | Card Clothing Clamp | Lewis, Joshua O. | 1870 |
| 98738 | Loom, Circular | Bryant, Nertoun C. | 1870 |
| 98822 | Loom Shuttle | Webendorfer, Rudolf | 1870 |
| 98966 | Combing & Preparing Wool | Holden, Edward | 1870 |
| 99055 | Spinning Machine | Branwell, Paul | 1870 |
| 99111 | Bobbin Holder | Salisbury, John | 1870 |
| 99152 | Loom Shuttle | Burns, W.H. | 1870 |
| 99154 | Rag Rug Making Implement | Cady, B.F. | 1870 |
| 99177 | Loom Harness Mechanism | Faulkner, George S. | 1870 |
| 99203 | Spinning Frame, Ring | Jenks, Barton H. | 1870 |
| 99223 | Loom, Jacquard, Narrow Ware | Muller, T.H. | 1870 |
| 99287 | Loom Temple, Roller Jaw | Burns, William H. | 1870 |
| 99458 | Hat Shaping Machine | Marlot, Jean P. | 1870 |
| 99511 | Spinning Mule, Self Acting | Wright, Edward | 1870 |
| 99534 | Spindle Step & Bolster | Chapman, Charles H. | 1870 |
| 99641 | Cotton Combing Machine | Conant, Hezekiah | 1870 |
| 99699 | Cotton Picker | Palmer, George F. | 1870 |
| 99843 | Warping Machine | Campbell, Samuel | 1870 |
| 100070 | Warping Machine | Reynolds, Roscoe C. | 1870 |
| 100317 | Loom Shuttle | Paine, Elias A. | 1870 |
| 100377 | Carpet | Cochrane, Jr., John | 1870 |
| 100548 | Button Hole Twist, Preparing | Morrison, Robert | 1870 |
| 100596 | Braiding Let Off & Tension | Butler, James D. | 1870 |
| 100675 | Spooling Machine Stop Motion | Semple, Jr., Samuel | 1870 |
| 100754 | Bobbin, Strengthening Method | Hallowell, Albert | 1870 |
| 100794 | Loom Tappet Chain | Nuthall, James | 1870 |
| 100798 | Knitting Machine | Phillip, Frank | 1870 |
| 101006 | Loom, Irregular Fabric | Goullioud, Alphonse | 1870 |
| 101088 | Loom Shedding Motion | Bigelow, Erastus B. | 1870 |
| 101089 | Crushing Machine, Ramie | Bigelow, Erastus B. | 1870 |
| 101109 | Spindle Step | Dougherty, Eliphalet | 1870 |
| 101110 | Warping Machine Drop Wire | Downes, Isaac | 1870 |
| 101220 | Shears | Booth, James | 1870 |
| 101875 | Knitting Machine | Hinkley, Jonas | 1870 |
| 101878 | Knitting Machine | House, Henry A. | 1870 |
| 101989 | Loom, Jacquard | Field, Albert R. | 1870 |
| 102039 | Loom | Ramel, Pierre | 1870 |
| 102256 | Washing Machine, Yarn | Haeffely, Edward | 1870 |
| 102368 | Loom Shuttle | Burrows, Edmund F. | 1870 |
| 102514 | Spindle Step, Cap | Draper, William | 1870 |
| 102772 | Spinning Bobbin | Carmichel, Alexander | 1870 |
| 102898 | Cordage Machine Band | Whitton, Samuel J. | 1870 |
| 102989 | Loom Warp Stand | Tiftt, Philancy D. | 1870 |
| 103018 | Hair Cloth, Imitation | Comstock, James J. | 1870 |
| 103051 | Silk Stretching Machine | Kennedy, George R. | 1870 |
| 103193 | Spool, Jack | James, B. | 1870 |

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| 103332 | Knitting Machine | Hill, Warren S. | 1870 |
| 103400 | Loom Shuttle | Wells, Horace | 1870 |
| 103415 | Loom Let Off | Bigelow, Erastus B. | 1870 |
| 103506 | Washer & Dryer, Wool | Sargent, Charles G. | 1870 |
| 103570 | Basket, Fruit | Colby, Eastman | 1870 |
| 103600 | Loom Shedding Motion | Gilbert, Charles W. | 1870 |
| 103616 | Loom Temple | Howard, William H. | 1870 |
| 103757 | Loom Shuttle | Lofvendahl, Joseph | 1870 |
| 103787 | Hat Blocking Machine | Sheldon, Julius | 1870 |
| 103880 | Loom | Herbert, John J. | 1870 |
| 103906 | Spinning Machine, Hand | Main, William H. | 1870 |
| 103973 | Chair Seat | Bulgin, William G. | 1870 |
| 103996 | Spinning Machine Spindle | Dougherty, George W. | 1870 |
| 104115 | Spindle Oil Cup & Bearing | Convers, Eugene | 1870 |
| 104137 | Loom Temple | Gilman, Albert H. | 1870 |
| 104232 | Carpet | Wallace, William | 1870 |
| 104329 | Warping Machine | Mather, Colin | 1870 |
| 104381 | Net Making Machine | Vivarttas, Aloha | 1870 |
| 104654 | Clothes Pin | Searles, Irving W. | 1870 |
| 104949 | Loom Let Off | Fletcher, Lewis N. | 1870 |
| 105812 | Spinning Mule, Self Acting | Kent, Prentiss | 1870 |
| 105815 | Spinning Machine | LaBanister, William | 1870 |
| 105905 | Swift & Reel | Clark, Charles H. | 1870 |
| 106038 | Loom Temple | Dutcher, Warren W. | 1870 |
| 106106 | Cloth Shearing Machine, Hair | Arnold, Olney | 1870 |
| 106130 | Drawing Frame, Hemp & Cotton | Davis, George | 1870 |
| 106306 | Loom Harness Mechanism | Ashworth, John | 1870 |
| 106334 | Loom Shedding Motion | Davis, Hilar D. | 1870 |
| 106466 | Spinning Machine, Flax & Hemp | Chapin, Henry A. | 1870 |
| 106468 | Printing Block, Carpet | Crossley, Thomas | 1870 |
| 106477 | Loom, Rattan | Fitts, Samuel L. | 1870 |
| 106499 | Knitting Machine | Morse, Edward | 1870 |
| 106571 | Loom Harness Mechanism | Field, Albert R. | 1870 |
| 106774 | Loom Shuttle Stopping Device | Bosshard, Theodore | 1870 |
| 106797 | Loom Temple, Roller | Dutcher, Warren W. | 1870 |
| 106809 | Loom | Gilbert, Lucien M. | 1870 |
| 107136 | Chair Seat | Watkins, Gardner A. | 1870 |
| 107168 | Loom Temple | Dutcher, Warren W. | 1870 |
| 107220 | Loom Shuttle | Carstaedt, Hugo | 1870 |
| 107236 | Carpet Rag Cutter | Eberhard, William | 1870 |
| 107248 | Cloth Cutting Machine | Goodfellow, John H. | 1870 |
| 107750 | Knitting Machine | Appleton, Charles J. | 1870 |
| 107890 | Carding Machine Weighting Attachment | Evans, Philip | 1870 |
| 107922 | Cotton Opener | Kitson, Richard | 1870 |
| 108003 | Knitting Machine | Burson, W.W. | 1870 |
| 108233 | Spinning Machine, Flax & Hemp | Bazin, Ernest | 1870 |
| 108356 | Spinning Machine | Huse, Warren D. | 1870 |
| 108387 | Rope Making Machine | Pike, William G. | 1870 |
| 108409 | Loom Shuttle | Towle, Hamilton E. | 1870 |
| 108680 | Reeling Machine | Briggs, John | 1870 |
| 108709 | Spinning, Drawing & Twisting Head | Lawrence, Samuel W. | 1870 |
| 108758 | Thread Winding Machine | Church, Dwight M. | 1870 |
| 109502 | Winding Machine | Eccles, Samuel | 1870 |
| 109580 | Clothes Pin | Bradley, George | 1870 |
| 109583 | Loom Temple, Roller | Burns, William H. | 1870 |
| 110000 | Loom Let Off & Tension | Bigelow, Erastus B. | 1870 |
| 110012 | Fabric, Fringe | Cocker, Peter | 1870 |
| 110050 | Loom, Hair Cloth | Laycock, William S. | 1870 |
| 110146 | Loom Shuttle Box Mechanism | Knowles, Lucius J. | 1870 |
| 110225 | Warping Machine | Furrer, Jacob | 1870 |
| 110617 | Spinning Machine Flyer | Abbot, Theodore T. | 1871 |

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|--------|-----------------------------------|-----------------------|------|
| 110640 | Loom Shedding Motion | Elliott, Robert | 1871 |
| 110795 | Warping Machine | Singleton, Thomas | 1871 |
| 110904 | Loom Harness Motion | Davis, Hilar D. | 1871 |
| 111002 | Loom Let Off | Remington, Horatio A. | 1871 |
| 111004 | Burring Machine, Wool | Richardson, William | 1871 |
| 111278 | Loom Shedding Motion | Towle, Hamilton E. | 1871 |
| 111343 | Loom, Cane, Slats, Straw | Hastings, Emory B. | 1871 |
| 111378 | Loom Picker | Parker, Jerome M. | 1871 |
| 111523 | Warping Machine | Draper, George | 1871 |
| 111595 | Loom Picker | Whitten, Henry | 1871 |
| 111674 | Carding Machine Feeder | Pettitt, Edwin | 1871 |
| 111977 | Carpet Rag Looper & Slitter | Russell, Daniel A. | 1871 |
| 111991 | Spinning Wheel | Voegtli, Franz | 1871 |
| 112391 | Cotton, Method of Treating | Simpson, Michael H. | 1871 |
| 112478 | Loom Take Up Mechanism | Michna, John | 1871 |
| 112643 | Loom Shuttle | Smith, Charles E. | 1871 |
| 112677 | Hat Pressing Machine | Beatty, Samuel | 1871 |
| 112785 | Loom, Lappet | Clough, Joseph | 1871 |
| 113028 | Warping Machine Stop Motion | Cummings, Edwin | 1871 |
| 113059 | Basket, Stave | Jones, Horace C. | 1871 |
| 113213 | Hose Repairing Machine | Shedlock, Alfred | 1871 |
| 113313 | Clothes Pin | Lipsey, Andrew B. | 1871 |
| 113325 | Bobbin Winding Machine | Morrill, Franklin H. | 1871 |
| 113380 | Spindle Bearing | Wilson, Charles F. | 1871 |
| 113445 | Spinning Mule, Self Acting | Parkinson, Charles | 1871 |
| 113575 | Spinning Machine, Ring | Sawyer, Jacob H. | 1871 |
| 113594 | Spinning Wheel | Strain, Joseph | 1871 |
| 113784 | Spinning Jack, Self Acting | McGovern, Peter | 1871 |
| 113814 | Spinning Mule, Self Acting | Sutherland, James | 1871 |
| 114008 | Tatting Shuttle & Crochet Needle | Hingher, Constantine | 1871 |
| 114048 | Wool Oiling Machine | Sargent, Charles G. | 1871 |
| 114064 | Drawing Frame | Taft, Gustavus E. | 1871 |
| 114114 | Thread Measuring Apparatus | Dimock, Lucius | 1871 |
| 114155 | Loom Shuttle | Kuttner, Julius | 1871 |
| 114167 | Loom Shuttle | Marble, Ezra W. | 1871 |
| 114274 | Spinning Mule, Self Acting | Dodd, John | 1871 |
| 114307 | Loom Weft Fork | Knowles, Jacob H. | 1871 |
| 114524 | Spinning Flyer | Brown, James S. | 1871 |
| 114535 | Rope Making Machine, Straw | Donnellan, Charles E. | 1871 |
| 114536 | Spindle Step | Draper, George | 1871 |
| 114562 | Fringe Twisting Machine | Howard, Hiland | 1871 |
| 114570 | Spindle Step | Draper, George | 1871 |
| 114606 | Loom Take Up | Rouse, Wanton | 1871 |
| 114929 | Loom | Crowley, Jeremiah | 1871 |
| 115006 | Loom Shuttle | Wright, Daniel | 1871 |
| 115191 | Spinning Machine | Goulding, John | 1871 |
| 115233 | Spinning Machine Spindle Step | Pearl, Oliver | 1871 |
| 115264 | Bobbin Winding Machine | Adams, Judson | 1871 |
| 115355 | Washing Machine | Putnam, Leonard | 1871 |
| 115508 | Loom | Nimmo, Archibald | 1871 |
| 115614 | Loom Shuttle | Isherwood, Thomas | 1871 |
| 115676 | Spinning Machine | Ballard, Seth R. | 1871 |
| 115938 | Loom | Davies, John S. | 1871 |
| 116125 | Warp Coloring Apparatus | White, Nelson D. | 1871 |
| 116168 | Bobbin Holder | Draper, George | 1871 |
| 116374 | Basket | Tuthill, Benjamin F. | 1871 |
| 116435 | Loom Shuttle | Graham, Edmund H. | 1871 |
| 116481 | Spinning Machine, Sizing Cop Coil | Pearson, Alfred | 1871 |
| 116482 | Warp Creel Bracket | Peck, Napoleon B. | 1871 |
| 116609 | Loom Shuttle | Lyall, James | 1871 |
| 116840 | Cotton Lapper Feed Regulator | Kitson, Richard | 1871 |
| 116841 | Picker, Waste | Kitson, Richard | 1871 |

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|--------|-----------------------------------|----------------------|------|
| 116881 | Spinning Machine Flyer | Stubbs, Thomas | 1871 |
| 117098 | Drawing Frame | Moon, Benjamin | 1871 |
| 117183 | Loom Shuttle | Lofvendahl, Joseph | 1871 |
| 117218 | Twisting Machine, Skein | Stubbs, Thomas | 1871 |
| 117220 | Loom Shuttle | Thissell, Earl A. | 1871 |
| 117231 | Spinning Mule, Self Acting | Wright, Edward | 1871 |
| 117324 | Needle Wrapper | Pitzler, James | 1871 |
| 117443 | Cloth Measuring Machine | Mills, Isaac | 1871 |
| 117523 | Loom Shuttle Box Mechanism | Dyson, John | 1871 |
| 117556 | Loom Shuttle Spindle | Morton, Albert | 1871 |
| 117672 | Loom, Narrow Ware | Oldfield, Edwin | 1871 |
| 117837 | Loom Shuttle, Wire Cloth | Waters, Charles | 1871 |
| 117934 | Spinning Ring Fastening | Sawyer, Jacob H. | 1871 |
| 118338 | Loom, Brussels Carpet | Buzzell, John P. | 1871 |
| 118405 | Loom Shuttle | Tucker, Frederic O. | 1871 |
| 118408 | Cord & Band Making Machine | Unsworth, Thomas | 1871 |
| 118422 | Spinning Frame Spindle | Austin, Clark L. | 1871 |
| 118426 | Cord Making Machine | Boardman, Harris | 1871 |
| 118536 | Twisting Machine, Yarn | Jackson, John H. | 1871 |
| 118763 | Spinning Machine Spindle Step | Westcott, Asa A. | 1871 |
| 118969 | Loom Harness Mechanism | Plummer, Osgood | 1871 |
| 119032 | Spinning Machine Spindle | Hussey, Daniel | 1871 |
| 119201 | Loom Shuttle | Tucker, Frederick O. | 1871 |
| 119276 | Loom, Hair Cloth | Lindsley, Isaac | 1871 |
| 119277 | Loom, Hair Cloth | Lindsley, Isaac | 1871 |
| 119283 | Spinning Machine Spindle Bearing | Sawyer, Jacob H. | 1871 |
| 119311 | Clothes Pin | Burling, Benjamin | 1871 |
| 119459 | Loom Harness Mechanism | Goodyear, Robert B. | 1871 |
| 119938 | Clothes Pin | Mellish, Henry | 1871 |
| 120209 | Roving Frame | Morgan, Eustis | 1871 |
| 120474 | Knitting Machine, Lace | Williamson, Henry | 1871 |
| 120510 | Loom, Needle | Gee, William V. | 1871 |
| 120782 | Braiding Machine, Whip | Sizer, Emerson | 1871 |
| 120843 | Loom Let Off | Woodman, Andrew J. | 1871 |
| 121045 | Felting Machine | Eickemeyer, Rudolf | 1871 |
| 121124 | Carpet Rag Looper & Slitter | Palmer, Leeman C. | 1871 |
| 121127 | Ironing Table & Clothes Dryer | Power, Martin | 1871 |
| 121258 | Loom Harness | Sladdin, Joseph | 1871 |
| 121262 | Loom Shuttle | Tucker, Frederick O. | 1871 |
| 121268 | Saddle Girth | Baker, Seth W. | 1871 |
| 121303 | Clothes Pin | Wattles, Hiram J. | 1871 |
| 121359 | Loom Picker | Gove, Elijah D. | 1871 |
| 121415 | Flock Cutting Machine, Reversible | Pitts, James | 1871 |
| 121758 | Basket | Cole, Elisha B. | 1871 |
| 121830 | Loom Shuttle | Waters, Charles H. | 1871 |
| 121838 | Loom Shuttle Box Mechanism | Ashworth, John | 1871 |
| 121842 | Loom Shedding Motion | Booth, James | 1871 |
| 121907 | Loom Shuttle Box Mechanism | Stone, Joseph M. | 1871 |
| 122236 | Thread Measuring Machine | Dunn, Leonard F. | 1871 |
| 122607 | Fluting Machine | Hayen, Jacob F. | 1872 |
| 122705 | Spinning Machine Spindle Bearing | Cheetam, Linneus | 1872 |
| 122984 | Basket, Fruit | Bartlet, Roland S. | 1872 |
| 123037 | Loom Shuttle Motion, Positive | Murkland, William | 1872 |
| 123184 | Loom Shuttle | Martin, Joseph | 1872 |
| 123358 | Spinning Machine Spindle Bearing | Pierce, Horatio L. | 1872 |
| 123545 | Knitting Machine | Appleton, Charles J. | 1872 |
| 123568 | Spinning Machine Spindle Step | Lothrop, Henry O. | 1872 |
| 123601 | Loom Heddle | Whipple, Cullen | 1872 |
| 123826 | Drawing Frame Stop Motion | Hayden, Daniel W. | 1872 |
| 123895 | Yarn Drying Machine | Hartman, Richard | 1872 |
| 123952 | Loom Picker | Terrell, Enoch T. | 1872 |
| 123978 | Loom Shuttle | Carstaedt, Hugo | 1872 |

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|--------|-----------------------------------|-----------------------|------|
| 124004 | Loom Temple | Murkland, William | 1872 |
| 124051 | Fringe | Gillespie, James E. | 1872 |
| 124071 | Clothes Pin | Lipsey, Andrew B. | 1872 |
| 124180 | Cloth Cutting Machine | Warth, Albin | 1872 |
| 124231 | Basket | Tower, Hercy E. | 1872 |
| 124290 | Spinning Machine Spindle | Sawyer, Jacob H. | 1872 |
| 124882 | Braiding Machine | Butler, James D. | 1872 |
| 124903 | Flock Grinder | Marble, Edwin T. | 1872 |
| 124955 | Clothes Pin | Huston, Robert W. | 1872 |
| 124967 | Loom Shuttle | Miller, Felix | 1872 |
| 124989 | Winding Machine Stop Motion | Unsworth, Thomas | 1872 |
| 125253 | Clothes Pin | Ball, Thomas C. | 1872 |
| 125467 | Cord Covering Machine Stop Motion | Lewis, Reuben | 1872 |
| 125543 | Knitting Machine | Comstock, Francis M. | 1872 |
| 125564 | Bobbin Winding Machine | Gee, William V. | 1872 |
| 125687 | Spinning Machine Spindle Bearing | Perry, Francis H. | 1872 |
| 125688 | Doubling & Twisting Machine Yarn | Perry, Francis H. | 1872 |
| 125689 | Warping Machine Stop Motion | Perry, Francis H. | 1872 |
| 126119 | Loom Shuttle | Whitehill, Robert | 1872 |
| 126387 | Card Stripping Machine | Foss, John F. | 1872 |
| 126569 | Loom Shuttle | Northrop, Louis L. | 1872 |
| 127159 | Spinning Machine Spindle | Draper, George | 1872 |
| 127566 | Carding Machine | Chase, Frederick | 1872 |
| 127748 | Spinning Machine | Draper, George | 1872 |
| 128274 | Knitting Machine Needle | Baldwin, Nathan H. | 1872 |
| 128480 | Loom Shedding Motion | Foss, John F. | 1872 |
| 128694 | Loom | Wyman, Horace | 1872 |
| 128774 | Carpet Rag Looper | Ansley, George W. | 1872 |
| 128857 | Carpet Rag Looper & Cutter | Converse, Lyman P. | 1872 |
| 128951 | Thread Winding Machine, Spool | Clark, William | 1872 |
| 129216 | Loom | Day, William | 1872 |
| 129285 | Cloth Cutting Machine | Koch, Frederick | 1872 |
| 129394 | Bobbin Winder, Automatic | Church, Dwight M. | 1872 |
| 129529 | Knitting Machine, Circular | Christoffers, Martin | 1872 |
| 129602 | Loom Shuttle Motion | Short, James | 1872 |
| 129692 | Loom Shuttle | Thissell, Earl A. | 1872 |
| 129722 | Loom Heddle Frame | Dyson, John | 1872 |
| 129816 | Rope & Cable Making Machine | Greenway, Henry | 1872 |
| 129829 | Carpet | Hunter, Samuel | 1872 |
| 129903 | Spinning Machine Spindle Bearing | Richardson, George | 1872 |
| 129915 | Loom Let Off | Woodward, Andrew J. | 1872 |
| 130058 | Spooling & Winding Machine Guide | Laffin, Perley | 1872 |
| 130135 | Basket | Jones, Horace C. | 1872 |
| 130136 | Basket | Jones, Horace C. | 1872 |
| 130137 | Basket | Jones, Horace C. | 1872 |
| 130148 | Spindle Step | Parmenter, Samuel W. | 1872 |
| 130343 | Cloth Cutting Machine | Warth, Albin | 1872 |
| 130672 | Cards For Wrapping Thread | Sutro, Hugo | 1872 |
| 130860 | Spindle | Osgood, Enoch | 1872 |
| 130866 | Knitting Machine | Ramsdell, William H. | 1872 |
| 130966 | Spinning Machine Bobbin Holder | Youngman, William L. | 1872 |
| 131185 | Card Cylinder Cleaners | Smith, James H. | 1872 |
| 131205 | Yarn Beaming Machine | Arms, James C. | 1872 |
| 131420 | Carpet Rag Looper | Bollinger, William | 1872 |
| 131491 | Loom Temple | Allen, Nicholas J. | 1872 |
| 131657 | Spinning Wheel | Bryce, John | 1872 |
| 131761 | Loom Shuttle Check | Kingston, Jonathan N. | 1872 |
| 131851 | Basket, Fruit | Conover, Stephen B. | 1872 |
| 131906 | Fabric | Roder, Conrad | 1872 |
| 132014 | Loom, Hair Cloth | Laycock, William S. | 1872 |
| 132546 | Die, Collar Making | Snow, George K. | 1872 |

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| 132627 | Clothes Pin | Bullock, Laban | 1872 |
| 132959 | Warping Machine | Fries, John W. | 1872 |
| 132986 | Spinning Machine Spindle & Bobbin | Roper, James | 1872 |
| 133065 | Spinning Machine | Stell, Michael | 1872 |
| 133080 | Cotton Gin | Clough, Jefferson M. | 1872 |
| 133493 | Loom Picker | Smith, Charles E. | 1872 |
| 133676 | Loom, Pile Fabric | Shinn, John | 1872 |
| 133868 | Loom Shuttle Motion | Lyall, James | 1872 |
| 133941 | Basket | Jones, Horace C. | 1872 |
| 134057 | Warp Setting Frame | Higgins, John H. | 1872 |
| 134067 | Spinning Frame Spindle | Jenks, Barton H. | 1872 |
| 134069 | Loom Shuttle Box Motion | Jenks, Barton H. | 1872 |
| 134074 | Loom Shuttle | Ladd, James E. | 1872 |
| 134075 | Loom Shuttle | Lambert, Peter A. | 1872 |
| 134535 | Spinning Machine Spindle & Bobbin | Garsed, Richard | 1873 |
| 134712 | Spinning Ring | Tully, Frank | 1873 |
| 134848 | Loom Shuttle | Bryant, H.H. | 1873 |
| 134863 | Spindle Bolster & Step | Draper, George | 1873 |
| 134864 | Spinning Frame | Draper, George | 1873 |
| 134935 | Dyeing & Washing Fiber Machine | Sargent, Charles G. | 1873 |
| 134964 | Yarn Sizing Machine | Abbott, Thomas | 1873 |
| 134971 | Loom Shuttle | Blanding, Francis | 1873 |
| 134992 | Loom | Knowles, Lucius J. | 1873 |
| 135015 | Carding Machine Condenser Tube | Skinner, Alexander W. | 1873 |
| 135033 | Hat Stretching Machine | Eickemeyer, Rudolf | 1873 |
| 135190 | Spinning Machine Spindle Bolster | Wilson, Charles F. | 1873 |
| 135253 | Loom Picker | Taylor, William | 1873 |
| 135428 | Hat Pressing Machine | Hastings, Emory B. | 1873 |
| 135446 | Loom Shuttle | Sawyer, Caleb K. | 1873 |
| 135501 | Clothes Pin | Wellington, William | 1873 |
| 135619 | Warping Machine | Bancroft, Joseph B. | 1873 |
| 135652 | Loom Shuttle | Martin, Thomas | 1873 |
| 135748 | Loom Shuttle Box Motion | Atkinson, William | 1873 |
| 135939 | Spinning Machine Spindle | Rice, David H. | 1873 |
| 135960 | Spindle Bolster | Barnes, James | 1873 |
| 136065 | Rag Ripper & Looper | John, Harley M. | 1873 |
| 136133 | Loom | Canis, Augustus | 1873 |
| 136384 | Loom Shuttle Binder | Rea, Francis | 1873 |
| 136480 | Knitting Machine, Circular | Armour, John M. | 1873 |
| 136504 | Spindle Lubricator | Goulding, J. | 1873 |
| 136633 | Carpet Rag Looper & Cutter | Whitten, Seth M. | 1873 |
| 136644 | Loom Temple | Dutcher, Frank J. | 1873 |
| 136715 | Loom Shuttle | Field, David C.G. | 1873 |
| 137077 | Loom Shuttle Motion | Kane, Charles J. | 1873 |
| 137239 | Spindle Bolster | Richardson, George | 1873 |
| 137252 | Loom Shedding Motion | Shinn, John | 1873 |
| 137326 | Combing Machine | Smith, Isaac | 1873 |
| 137368 | Basket | Higgins, William C. | 1873 |
| 137386 | Spinning Mule, Self Acting | Paul, Archibald | 1873 |
| 137443 | Spindle Step | Henry, J.J. | 1873 |
| 137518 | Cloth Folding Machine | Warth, Albin | 1873 |
| 137605 | Warping Machine Stop Mechanism | Follensbee, George S. | 1873 |
| 137846 | Basket, Grain | Jones, Horace C. | 1873 |
| 137898 | Loom | Duckworth, John C. | 1873 |
| 137962 | Printing Machine, Oil Cloth | Rommel, Charles | 1873 |
| 138511 | Spinning Mule, Self Acting | McGovern, Peter | 1873 |
| 138929 | Spinning Machine Spindle Stop | Potter, Henry T. | 1873 |
| 139051 | Spinning Mule | Dewey, John J. | 1873 |
| 139251 | Loom Filling Fork | Knowles, Jacob H. | 1873 |
| 139384 | Loom Shuttle Box Mechanism | Goodyear, Robert B. | 1873 |
| 139447 | Drawing Frame Stop Motion | Wright, Pliny J. | 1873 |
| 139558 | Bobbin | Earl, Anthony I. | 1873 |

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| 139616 | Cloth Cutting Machine, Webbing | Rice, William A. | 1873 |
| 139652 | Spinning Machine Quill Bobbin | Bass, Jr., David | 1873 |
| 139884 | Loom Temple | Dutcher, Warren W. | 1873 |
| 139929 | Loom Temple | Stimpson, Edward S. | 1873 |
| 139930 | Spooling Machine | Stone, Joseph M. | 1873 |
| 140013 | Loom Temple | Chapman, N. | 1873 |
| 140056 | Spinning Frame Twist Regulator | Martin, Celestin | 1873 |
| 140098 | Loom Shuttle | Tucker, William | 1873 |
| 140215 | Thread Evener | Meldrum, John B. | 1873 |
| 140320 | Cloth Napping Machine, Knit | Tomkins, Clark | 1873 |
| 140322 | Flyer, Covering Bonnet Wire | Tyler, Erastus H. | 1873 |
| 140757 | Spinning Ring, Adjustable | Bancroft, Joseph B. | 1873 |
| 140800 | Knitting Machine | Tripp, Othniel F. | 1873 |
| 140889 | Carpet Rag Looper | Clayton, Jr., William | 1873 |
| 140903 | Hat Stretching Machine | Eickemeyer, Rudolf | 1873 |
| 141262 | Loom | Davis, Hilar D. | 1873 |
| 141337 | Hat Stretching Machine | Eickemeyer, Rudolf | 1873 |
| 141338 | Hat Block, Expansible | Eickemeyer, Rudolf | 1873 |
| 141339 | Hat Lustering Machine | Eickemeyer, Rudolf | 1873 |
| 141434 | Bobbin Winding Machine | Goodyear, James | 1873 |
| 141440 | Spinning Machine Spindle Bolster | Jenks, Barton H. | 1873 |
| 141575 | Bobbin | McLaughlin, Thomas G. | 1873 |
| 141725 | Beetling Woven Fabric Machine | Patterson, John | 1873 |
| 141740 | Clothes Pin | Urso, Vincent D. | 1873 |
| 141751 | Spinning Machine Spindle Bolster | Birkenhead, John | 1873 |
| 141803 | Loom Shuttle | McIntyre, Thomas K. | 1873 |
| 142101 | Cotton Opener, Feed Regulator | Harding, David | 1873 |
| 142177 | Reel, Skeining Silk | Simon, Robert | 1873 |
| 142188 | Bobbin Winding Machine | Atkinson, William | 1873 |
| 142245 | Spinning Machine Bobbin | Laflin, Perley | 1873 |
| 142342 | Basket, Grain | Jones, Horace C. | 1873 |
| 142373 | Loom Shuttle | Brown, Joseph | 1873 |
| 142439 | Carpet Manufacture | Clark, Henry A. | 1873 |
| 142681 | Carpet | Dorman, John | 1873 |
| 143024 | Clothes Pin | Mellish, Henry | 1873 |
| 143218 | Loom Picker | Boorn, Samuel | 1873 |
| 143257 | Loom Picker | Ross, Lester E. | 1873 |
| 143508 | Spinning Machine Condensation Tube | Good, J. | 1873 |
| 143743 | Band, Endless | Binns, Leedham | 1873 |
| 143785 | Spindle Bolster | Richardson, George | 1873 |
| 143927 | Loom Shuttle | Pfefferkorn, Carl L. | 1873 |
| 143976 | Loom Shuttle | Fields, M.F. | 1873 |
| 144067 | Spindle | Crocker, Lewis C. | 1873 |
| 144077 | Loom, Pile Fabric | Ellison, James C. | 1873 |
| 144176 | Loom Shedding Mechanism | Wilber, Isaac L. | 1873 |
| 144507 | Loom Temple | Chapman, Nathan | 1873 |
| 144563 | Basket, Rattan Ware | Penley, Sullivan H. | 1873 |
| 144601 | Spinning Machine Spindle | Carroll, William T. | 1873 |
| 144610 | Loom, Narrow Ware | Fowler, Rufus B. | 1873 |
| 144620 | Rod for Drawing in Warp Thread | Jordan, Mary S. | 1873 |
| 144647 | Loom Temple | Allen, Nichalos I. | 1873 |
| 144657 | Loom Shuttle | Chapman, Nathan D. | 1873 |
| 144839 | Cloth Napping Machine | Dobson, John | 1873 |
| 144840 | Drawing & Delivering Wool | Dobson, John | 1873 |
| 144841 | Fulling Mill | Eickemeyer, Rudolf | 1873 |
| 145009 | Spinning Machine Spindle | Perry, William G. | 1873 |
| 145094 | Carpet Rag Looper | Cooper, James F. | 1873 |
| 145282 | Loom Harness Making Machine | Crowell, John H. | 1873 |
| 145316 | Loom Shuttle Box, Drop | Thomas, Samuel T. | 1873 |
| 145322 | Spinning Machine | Williams, Chauncey | 1873 |
| 145386 | Band Making Machine, Endless | Binns, Leedham | 1873 |

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| 145803 | Carpet | Iskiyan, Gregory | 1873 |
| 145831 | Loom Shuttle | Ball, Edwin P. | 1873 |
| 145905 | Loom Picker | Sawyer, Orren A. | 1873 |
| 146059 | Spinning Machine Spindle Whirl | Furbush, Merrill A. | 1873 |
| 146065 | Chair Seat | Hale, Henry S. | 1873 |
| 146077 | Tatting Shuttle & Crochet Needle | Kellogg, Eugene | 1873 |
| 146320 | Dyeing Wool or Silk In Skeins | Cooke, James S. | 1874 |
| 146362 | Loom Shuttle | Rigby, John | 1874 |
| 146391 | Spindle Driving Mechanism | Hussey, Daniel | 1874 |
| 146543 | Loom Take Up | Murkland, William | 1874 |
| 146544 | Loom, Jacquard | Murkland, William | 1874 |
| 146558 | Swift & Reel | Totten, Andrew | 1874 |
| 146564 | Carpet Rag Looper | Almy, J. Eben | 1874 |
| 146574 | Loom Weft Stop | Comey, Willard | 1874 |
| 146756 | Spinning Machine Bobbin | Draper, William F. | 1874 |
| 146757 | Loom Temple | Dutcher, Warren W. | 1874 |
| 146942 | Shears | Nunan, Edward | 1874 |
| 147062 | Loom Shuttle | Murkland, William | 1874 |
| 147075 | Loom Shuttle | Spalding, Edwin G. | 1874 |
| 147076 | Loom Shuttle | Spalding, Edwin G. | 1874 |
| 147200 | Spinning Wheel | Voegth, Franz | 1874 |
| 147372 | Knitting Machine | Coltman, Thomas | 1874 |
| 147453 | Cloth Cutting Machine | Warth, Albin | 1874 |
| 147550 | Fringe Twisting Machine | Brooks, William | 1874 |
| 147590 | Spinning Mule, Self Acting | Bancroft, Nathan W. | 1874 |
| 147657 | Spinning & Doubling Stop Mechanism | Kraink, George | 1874 |
| 147747 | Die, Covering Spool Head | Darrow, Franklin E. | 1874 |
| 147779 | Carding Machine | Mills, Christopher D. | 1874 |
| 148036 | Loom Selvage Guard | Clayton, Joseph | 1874 |
| 148088 | Clothes Pin | Reed, Samuel | 1874 |
| 148134 | Loom Shuttle | Parker, William M. | 1874 |
| 148135 | Loom Shuttle | Parker, William M. | 1874 |
| 148252 | Loom Harness Making Machine | Sladdin, Joseph | 1874 |
| 148388 | Knitting Machine | Stevens, Benjamin C. | 1874 |
| 148397 | Spinning Mule, Self Acting | Wright, Edward | 1874 |
| 148534 | Spinning Machine Spindle & Bobbin | Whitman, George D. | 1874 |
| 148625 | Spinning Machine Spindle Bolster | Richardson, George | 1874 |
| 148680 | Hat Pouncing Machine | Eickemeyer, Rudolf | 1874 |
| 148784 | Basket | Van Ornum, Robert W. | 1874 |
| 148936 | Loom Picker | Crompton, George | 1874 |
| 148937 | Knitting Machine, Circular | Cummings, George W. | 1874 |
| 149085 | Wool Treating Machine | Wilkinson, Frederick | 1874 |
| 149099 | Loom Picker Staff Check | Bury, Benjamin | 1874 |
| 149264 | Basket | Stevens, Henry | 1874 |
| 149292 | Loom, Pile Fabric | Davis, Ezekiel K. | 1874 |
| 149447 | Loom Weft Stop | Cottrell, Jesse D. | 1874 |
| 149448 | Loom | Cottrell, Jesse D. | 1874 |
| 149498 | Speeder, Drawing & Twisting | Mayor, Thomas | 1874 |
| 149815 | Spinning Mule | Watts, James | 1874 |
| 150073 | Combing Machine | Mirfield, Matthew | 1874 |
| 150174 | Loom Shuttle | Maynard, Israel F. | 1874 |
| 150240 | Loom Shuttle | Hooper, Cyrus A. | 1874 |
| 150424 | Basket | Maynard, Sylvender F. | 1874 |
| 150439 | Clothes Pin | Smith, David M. | 1874 |
| 150581 | Silk Winding Machine | Jenkins, George E. | 1874 |
| 150806 | Loom Shuttle | Williams, Norman A. | 1874 |
| 150925 | Loom Shedding Mechanism | Williamson, Joseph | 1874 |
| 150931 | Loom Shuttle | Arnold, Jabez R. | 1874 |
| 151384 | Loom, Needle | Greenleaf, Joseph H. | 1874 |
| 151385 | Loom, Narrow Ware | Gregory, William | 1874 |
| 151456 | Cloth Cutting Machine | Warth, Albin | 1874 |
| 151624 | Carpet Rag Looper | Rowell, Franklin | 1874 |

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|--------|--------------------------------|-----------------------|------|
| 151697 | Spinning Machine Roll Cleaner | Harris, James T. | 1874 |
| 151729 | Loom Weft Stop | Taylor, William | 1874 |
| 151961 | Loom Shedding Motion | Davis, Hilar D. | 1874 |
| 152008 | Spindle | Richardson, George | 1874 |
| 152021 | Knitting Machine | Tripp, Othniel F. | 1874 |
| 152088 | Loom, Carpet | Duckworth, William | 1874 |
| 152219 | Spinning Machine Bobbin | Draper, George | 1874 |
| 152229 | Loom Temple | Hirst, Joseph | 1874 |
| 152367 | Die, Cutting Gloves | Haag, Jacob | 1874 |
| 152404 | Dyeing Apparatus, Indigo | Oldroyd, John | 1874 |
| 152419 | Loom Shuttle | Sawyer, Caleb K. | 1874 |
| 152443 | Loom Shuttle | Washburn, Quincy A. | 1874 |
| 152531 | Loom, Wire | Taylor, William | 1874 |
| 152654 | Loom, Bag | Laird, Jr., John | 1874 |
| 153025 | Card Punching Machine | Upson, Lyman A. | 1874 |
| 153320 | Cord Making Machine | Defrees, William H. | 1874 |
| 153417 | Window Shade Weaving Machine | Baldwin, Jr., John | 1874 |
| 153660 | Cloth Napping Machine | Brown, Adna | 1874 |
| 153693 | Loom, Wire Cloth | Wickwire, Chester F. | 1874 |
| 153711 | Loom | Harriman, Moses | 1874 |
| 154035 | Loom, Corset | Gahren, Charles | 1874 |
| 154466 | Warping Machine Stop Mechanism | Entwistle, Thomas C. | 1874 |
| 154483 | Darning Machine, Stocking | Hosmer, Orin S. | 1874 |
| 154600 | Loom | Gee, William V. | 1874 |
| 154601 | Loom Filling Guide | Gee, William V. | 1874 |
| 154736 | Pinking Iron | Welch, Eliza P. | 1874 |
| 154745 | Loom, Tape | Chapman, Charles H. | 1874 |
| 154766 | Picking & Twisting Cows Hair | Pfanne, Charles | 1874 |
| 154822 | Washing Machine, Wool | Bachelor, John | 1874 |
| 154837 | Loom Temple | Chapman, Nathan | 1874 |
| 154969 | Spinning Wheel | Walker, Walter B. | 1879 |
| 154996 | Loom, Hair Cloth | Turpie, John | 1874 |
| 155382 | Spinning Machine Spindle | Mason, William | 1874 |
| 155558 | Spinning Machine Bobbin Holder | Wellens, Jules C. | 1874 |
| 155749 | Spinning Mule, Self Acting | Platt, Samuel | 1874 |
| 156027 | Loom Shuttle | Lear, Peter | 1874 |
| 156205 | Spindle Step | Chatterton, George | 1874 |
| 156230 | Spinning Wheel | McLeod, Murdock | 1874 |
| 156337 | Loom Shuttle | Dorman, John | 1874 |
| 156403 | Loom Weft Fork | Allen, Nicholas I. | 1874 |
| 156413 | Spool | Darrow, Franklin | 1874 |
| 156459 | Loom Picker | Garland, James G. | 1874 |
| 156525 | Spinning Frame, Silk | Atwood, John E. | 1874 |
| 156526 | Spinning Frame | Atwood, John E. | 1874 |
| 156587 | Loom Let Off & Take Up | Metcalf, Edward | 1874 |
| 156610 | Carpet | Wallace, William | 1874 |
| 156630 | Loom Shedding Motion | Crompton, George | 1874 |
| 156667 | Spindle Step | Hopkins, Addison S. | 1874 |
| 156770 | Spindle | Carter, Euclid D. | 1874 |
| 157677 | Loom | Crompton, George | 1874 |
| 157845 | Hat Measurer & Stretcher | Levering, Thomas J. | 1874 |
| 157931 | Rope, Wire | Roebing, Charles G. | 1874 |
| 158027 | Cloth Measure | Carlton, Hugh | 1874 |
| 158202 | Loom, Pile Fabric | Cochran, Jr., John | 1874 |
| 158394 | Loom Shuttle Box Mechanism | Wyman, Horace | 1875 |
| 158413 | Spinning Frame | Stone, Joseph M. | 1874 |
| 158427 | Thread Winding Guide | Manchester, Eugene L. | 1875 |
| 158775 | Loom Picker | Bean, Benjamin F. | 1875 |
| 159050 | Loom Temple | Stimpson, Edward S. | 1875 |
| 159255 | Loom Temple | Fuller, Albert D. | 1875 |
| 159499 | Spindle Lubricator | Buttrick, Charles G. | 1875 |

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|--------|-------------------------------|---------------------------|------|
| 159653 | Loom | Dornan, John | 1875 |
| 159750 | Knitting Machine, Circular | Curtiss, Edward P. | 1875 |
| 159764 | Loom Shuttle | Lear, Peter | 1875 |
| 159912 | Hat Pouncing Machine | Eickemeyer, Rudolf | 1875 |
| 159983 | Loom Stop Mechanism | Bullough, James | 1875 |
| 159984 | Loom Stop Mechanism | Bullough, James | 1875 |
| 159985 | Loom Stop Mechanism | Bullough, James | 1875 |
| 159986 | Loom Stop Mechanism | Bullough, James | 1875 |
| 159988 | Cloth Folding Machine | Warth, Albin | 1875 |
| 160001 | Loom Shuttle | Blanding, Francis | 1875 |
| 160058 | Spooling Machine | Mathewson, Thomas A. | 1875 |
| 160198 | Braiding Machine | Hupplesberg, Friedrick W. | 1875 |
| 160544 | Loom Shuttle | Peasley, James H. | 1875 |
| 160607 | Cloth Cutting Apparatus, Bias | Mayer, Solomon | 1875 |
| 160661 | Clothes Pin | Farrington, George K. | 1875 |
| 160749 | Loom, Suspender Webbing | Chapman, Charles H. | 1875 |
| 160825 | Cloth Shearing Machine | Holmes, Isaac | 1875 |
| 160843 | Loom Shuttle | Safford, Mark | 1875 |
| 161008 | Knitting Machine, Straight | Curtiss, Edward P. | 1875 |
| 161061 | Loom Shuttle | Rollason, Alfred | 1875 |
| 161101 | Loom Shuttle | Crosby, John A. | 1875 |
| 161138 | Clothes Pin | Mayo, William H. | 1875 |
| 161443 | Loom Let Off | Rose, George | 1875 |
| 161488 | Loom Shuttle Box Mechanism | Crompton, George | 1875 |
| 161545 | Loom Shuttle | Porter, Roger W. | 1875 |
| 161638 | Warping Machine | Richard, Joseph S. | 1875 |
| 161702 | Loom Shuttle | Peckham, James M. | 1875 |
| 161888 | Spinning Machine Spindle | Le Moynes, Joel H. | 1875 |
| 161972 | Loom Shuttle | Le Moynes, Joel H. | 1875 |
| 161996 | Loom Let Off | Turner, John | 1875 |
| 162093 | Carpet Rag Looper | Naylor, George W. | 1875 |
| 162188 | Loom Beam | Oldfield, Edwin | 1875 |
| 162191 | Loom Heddle Frame | Pratt, Frederic S. | 1875 |
| 162238 | Loom Shedding Motion | Kenison, Orrin W. | 1875 |
| 162246 | Spinning Machine | Mattison, Charles Z. | 1875 |
| 162385 | Carpet | Horner, Jr., Samuel | 1875 |
| 162390 | Hat Brushing Machine | Joyce, Alexander S. | 1875 |
| 162479 | Cotton Cleaning Machine | Keene, Samuel D. | 1875 |
| 163280 | Cordage Finishing Machine | Tebow, Theodore | 1875 |
| 163483 | Spool, Jack | Guy, Henry M. | 1875 |
| 163609 | Loom Shuttle | Rigby, John | 1875 |
| 163691 | Loom Heddle Frame | Pike, Edwin S. | 1875 |
| 163799 | Loom Shuttle Box Mechanism | Norton, James Lee | 1875 |
| 163887 | Spinning Ring & Ring Rail | Richardson, George | 1875 |
| 163959 | Spool | Allen, Nicholas I. | 1875 |
| 164026 | Cloth Tenting Machine | Palmer, Jr., William H. | 1875 |
| 164059 | Spinning Machine Spindle | Wade, Asel M. | 1875 |
| 164144 | Loom Shuttle | Cheetham, Thomas | 1875 |
| 164256 | Spinning Ring & Gearing | Booth, John | 1875 |
| 164492 | Spinning Ring | Stearns, Willard W. | 1875 |
| 164493 | Loom Shuttle | Stevens, Edgar M. | 1875 |
| 164716 | Spinning Machine Top Roller | Card, Edward | 1875 |
| 164740 | Warp Holder | Houghton, Henry S. | 1875 |
| 164751 | Embroidering Machine | Michalet, Francois | 1875 |
| 164796 | Carding Machine, Lapping | Blamires, Thomas H. | 1875 |
| 165045 | Basket, Stave | Wheeler, Shepherd H. | 1875 |
| 165197 | Spinning Machine Top Roller | Atkinson, Edward | 1875 |
| 165285 | Basket, Stave | Wheeler, Roscoe B. | 1875 |
| 165352 | Speeder | Mayor, Thomas | 1875 |
| 165416 | Basket, Stave | Jones, Horace C. | 1875 |
| 165417 | Basket, Grain | Jones, Horace C. | 1875 |

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|--------|-------------------------------------|------------------------|------|
| 165419 | Basket, Stave | Jones, Horace C. | 1875 |
| 165433 | Spinning Machine Spindle | Wade, Asel M. | 1875 |
| 165636 | Cloth Cutting Machine | Warth, Albin | 1875 |
| 165657 | Cloth Friezing Machine | Bishop, George G. | 1875 |
| 165666 | Loom Beam | Gould, John A. | 1875 |
| 165777 | Loom Shuttle | Willis, Newiel J. | 1875 |
| 165807 | Bobbin Winder | Dornan, John | 1875 |
| 165941 | Lace Machine | Malhere, Eugene | 1875 |
| 166262 | Fabric, Imitation Quilted | Corwin, Walter | 1875 |
| 166316 | Spinning Frame Building Mechanism | Stone, Joseph M. | 1875 |
| 166366 | Cloth Testing Machine | Hebdon, William | 1875 |
| 166601 | Carding Machine Condenser Mechanism | Furbush, Merrill A. | 1875 |
| 166732 | Loom, Hair Cloth | Turnpie, John | 1875 |
| 166753 | Rope Stretcher | Curtis, Charles C. | 1875 |
| 166896 | Coverlet | Schadewald, Henry | 1875 |
| 167152 | Loom, Pile Fabric | Bigelow, Erastus B. | 1875 |
| 167176 | Loom Shuttle Motion | Kane, Charles J. | 1875 |
| 167310 | Fabric, Felt | Davies, Henry | 1875 |
| 167357 | Loom Heddle Frame | Pike, Edwin S. | 1875 |
| 167358 | Rattan Measuring Machine | Richardson, Nathan H. | 1875 |
| 167391 | Hat Stretching Machine | Eickemeyer, Rudolf | 1875 |
| 167418 | Loom Take Up Pawl | Walker, Samuel S. | 1875 |
| 167545 | Loom, Matting | Kuh, Sol | 1875 |
| 167563 | Knitting Stockings, Method of | Polle, Sallie | 1875 |
| 167673 | Clothes Pin | Kniffen, George W. | 1875 |
| 167678 | Loom Shuttle Spindle | Logan, Thomas H. | 1875 |
| 167707 | Loom Picker Stop Check | Stevenson, William W. | 1875 |
| 167753 | Loom Shuttle | Edwards, Addison | 1875 |
| 167823 | Spindle Lubricator | Buttrick, Charles | 1875 |
| 167965 | Spinning Machine Spindle Whirl | Wilson, Jr., David | 1875 |
| 168022 | Spindle Step Securing Mechanism | Hopkins, Addison S. | 1875 |
| 168066 | Spooling Machine, Yarn | Wade, Asel M. | 1875 |
| 168228 | Loom Take Up | Carstaedt, Hugo | 1875 |
| 168309 | Doubling & Twisting Machine | Wicks, Joseph F. | 1875 |
| 168512 | Spinning Machine, Wool | Martin, Celestin | 1875 |
| 168644 | Spindle Bolster | Jenckes, Welcome | 1875 |
| 168719 | Temple Teeth Setting Machine | Chapman, Nathan | 1875 |
| 169170 | Spinning Machine | Hillard, James P. | 1875 |
| 169248 | Loom Shuttle | Fish, Joseph | 1875 |
| 169315 | Doubling Machine | Unsworth, Thomas | 1875 |
| 169447 | Basket, Stave | Jones, Horace C. | 1875 |
| 169448 | Basket, Stave | Jones, Horace C. | 1875 |
| 169504 | Loom Shuttle | Wright, Daniel | 1875 |
| 169505 | Loom Shuttle | Wright, Daniel | 1875 |
| 169507 | Spinning Frame | Atwood, John E. | 1875 |
| 169546 | Bobbin | Hubbard, Horace J. | 1875 |
| 169568 | Warper | Moulton, Oliver | 1875 |
| 169608 | Loom Pattern Chain | Wicks, Joseph F. | 1875 |
| 169742 | Cloth Napping Machine | Thackrah, Benjamin | 1875 |
| 169749 | Loom Temple | Walker, Samuel S. | 1875 |
| 169837 | Loom Shuttle | Porter, Roger W. | 1875 |
| 169995 | Loom Shuttle Check & Binder | Hurd, Seth T. | 1875 |
| 170007 | Loom Stop Motion Fork | McCaffery, Jr., John | 1875 |
| 170214 | Loom Shuttle & Shuttle Stop | Wolfender, James | 1875 |
| 170323 | Carpet Rag Looper | Wyckoff, William H. H. | 1875 |
| 170458 | Loom Harness Motion | Witter, Henry | 1875 |
| 170572 | Fabric, Elastic | Leonard, Moses H. | 1875 |
| 170580 | Loom Picker | McManus, Henry | 1875 |
| 170630 | Spinning Wheel | Kendall, John J. | 1875 |
| 170922 | Loom, Pile Fabric | Webster, William | 1875 |
| 170929 | Spinning Machine Spindle | Arnold, John C. | 1875 |
| 171075 | Card Grinding Machine | Wicks, Joseph F. | 1875 |

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|--------|---------------------------------|------------------------|------|
| 171298 | Spinning Machine | Marshall, Nathaniel | 1875 |
| 171466 | Knitting Machine, Circular | Appleton, Charles J. | 1875 |
| 171520 | Loom Picker Fastening | Labounty, Leonard G. | 1875 |
| 171548 | Twisting Machine | Capstack, Jonathan | 1875 |
| 171598 | Loom Shuttle Box Mechanism | Chandler, Isaac G. | 1875 |
| 171788 | Warping Machine | Follinsbee, George S. | 1876 |
| 171808 | Cloth Shearing Machine | Holmes, Isaac L. | 1876 |
| 171943 | Doubling Machine | Leigh, Lewis E. | 1876 |
| 171989 | Loom Shuttle Box Mechanism | Capron, Ariel B. | 1876 |
| 172097 | Loom Lay Motion | Duckworth, John C. | 1876 |
| 172296 | Loom, Carpet | Bigelow, Erastus B. | 1876 |
| 172298 | Winding Machine, Conical Bobbin | Campbell, George | 1876 |
| 172510 | Spindle Sheath & Cop tube | Simmons, George H. | 1876 |
| 172681 | Cotton Cleaning Machine | Wright, James | 1876 |
| 172690 | Cloth Napping & Calendering | Becker, Nicholas J. | 1876 |
| 172937 | Cotton Bale Check | Riethmuller, John C. | 1876 |
| 172989 | Knitting Machine, Circular | Franz, William | 1876 |
| 173172 | Cotton Opener & Picker | Kitson, Richard | 1876 |
| 173391 | Hat Brim Cutter | Cooke, George W. | 1876 |
| 173646 | Cotton Opener & Cleaner | Kenne, S.Davis | 1876 |
| 173704 | Felting & Napping Cloth Machine | Whipple, Lyman W. | 1876 |
| 173922 | Fulling Mill | Eickemeyer, Rudolf | 1876 |
| 174345 | Knitting Machine | Appleton, Charles J. | 1876 |
| 174349 | Spinning Mule | Brown, James S. | 1876 |
| 174376 | Loom Shuttle | Mills, Guy C. | 1876 |
| 174505 | Cop Tube | Essex, Jeremiah | 1876 |
| 174763 | Knitting Machine, Circular | Bickford, Dana | 1876 |
| 174902 | Temple Teeth Sorting Machine | Dutcher, Frank | 1876 |
| 174918 | Speeder & Fly Frame | Mayor, Thomas | 1876 |
| 174947 | Bobbin | Cundey, Isaac | 1876 |
| 174999 | Fluting Machine | Albrecht, Hermann | 1876 |
| 175117 | Loom Shuttle | Legare, Marcel S. | 1876 |
| 175396 | Loom Weft Fork | Warfield, Caleb H. | 1876 |
| 175499 | Carpet | Read, Charles A. | 1876 |
| 175633 | Loom Stop Motion Fork | Worthern, Charles H. | 1876 |
| 175641 | Fulling Mill | Baldwin, Joel M. | 1876 |
| 175802 | Spindle Step Lubricator | Whorwell, Henry | 1876 |
| 175953 | Hat Body Stretching Machine | Eickemeyer, Rudolf | 1876 |
| 176171 | Loom Temple, Roller | Dow, Albert F. | 1876 |
| 176261 | Knitting Machine, Circular | Appleton, Charles J. | 1876 |
| 176314 | Chair Seat & Back | Hunzinger, George | 1876 |
| 176359 | Spindle Bobbin | Sawyer, Jacob H. | 1876 |
| 176467 | Loom Shedding Mechanism | Goodyear, Robert B. | 1876 |
| 176949 | Loom, Corset | Gahren, Charles | 1876 |
| 177162 | Bobbin Winder | Schofield, Joseph | 1876 |
| 177227 | Loom Temple | Dutcher, William W. | 1876 |
| 177323 | Loom Stop Motion | Crompton, George | 1876 |
| 177373 | Loom Temple Bar | Chapman, Nathan | 1876 |
| 177466 | Card Clothing, Utilizing Old | Brummet, Frank E. | 1876 |
| 177602 | Cloth Napping Machine | Whitcomb, Marcienne H. | 1876 |
| 177641 | Loom Picker | Holbrook, Albert | 1876 |
| 177783 | Basket, Grain | Amsden, Galen | 1876 |
| 177841 | Hose Goods | Hubbard, Henry G. | 1876 |
| 177920 | Loom, Pile Fabric | Bigelow, Erastus B. | 1876 |
| 178167 | Knitting Machine, Rotary | Langham, Thomas | 1876 |
| 178259 | Loom Temple | Arnold, Jabez R. | 1876 |
| 178377 | Loom Selvage Guard | Mills, John H. | 1876 |
| 178599 | Fulling Mill | Coolidge, Charles P. | 1876 |
| 178987 | Rope Making Machine | Binns, Leedham | 1876 |
| 179043 | Spinning Wheel | Mullins, John W. | 1876 |
| 179118 | Cotton Opener & Picker | Kitson, Richard | 1876 |
| 179166 | Loom Shedding & Shuttle Motion | Davis, Hylas D. | 1876 |

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|--------|-----------------------------------|----------------------|------|
| 179334 | Loom | Miller, Augustus H. | 1876 |
| 179402 | Loom Reed, Give Away | Cottrell, Jesse D. | 1876 |
| 179463 | Spindle Adjusting Device | Perry, William G. | 1876 |
| 179488 | Cop Winding Machine | Reid, William | 1876 |
| 179510 | Bobbin, Receiving Silk Cloth | Blauvelt, Jacob T. | 1876 |
| 179575 | Cloth Cutting, Ornamental | Lamb, Joseph | 1876 |
| 179703 | Hook, Web Drawing | Jordan, Mary S. | 1876 |
| 179741 | Spinning & Doubling Machine | Taylor, John | 1876 |
| 179834 | Carding Machine Attachment | Wright, James | 1876 |
| 179848 | Cotton Baling & Packing Apparatus | Drake, James A. | 1876 |
| 179849 | Cotton Baling & Packing Apparatus | Drake, James A. | 1876 |
| 179855 | Loom Harness Knitting Machine | Hodgkins, William A. | 1876 |
| 179962 | Carding Machine | Ryan, James C. | 1876 |
| 180143 | Spinning Machine, Ring | Mayor, Thomas | 1876 |
| 180145 | Bobbin | Mayor, Thomas | 1876 |
| 180215 | Thimble | Finger, Gilbert | 1876 |
| 180250 | Knitting Machine, Circular | Marshall, Moses | 1876 |
| 180515 | Carpet | Allinson, James | 1876 |
| 180932 | Wash Bench & Wringer | Rudel, Peter | 1876 |
| 181107 | Cloth Cutting Machine | Sanson, Robert B. | 1876 |
| 181291 | Loom Temple | Stimpson, Edward S. | 1876 |
| 181321 | Spooling Machine Yarn Guide | Draper, George | 1876 |
| 181565 | Spinning Regulator, Rope | Farthing, Isaiah | 1876 |
| 181798 | Loom Shuttle Threading Mechanism | Parker, Thomas S. | 1876 |
| 181804 | Spinning Machine Spindle | Stanley, James C. | 1876 |
| 181861 | Clothes Pin | Mihills, Uriah D. | 1876 |
| 182051 | Fabric, Double Woven | Baker, Seth W. | 1876 |
| 182150 | Loom Shuttle | Beatty, William | 1876 |
| 182171 | Cloth Folding Machine | Cottrell, Jesse D. | 1876 |
| 182209 | Wool Treating Apparatus | Mary, Nicholas | 1876 |
| 182300 | Spinning Frame | Chandler, Isaac | 1876 |
| 182590 | Fringe Twisting Machine | Mortimer, Samuel | 1876 |
| 182892 | Netting | Chase, John E. | 1876 |
| 182908 | Hat Pouncing Machine | Eickemeyer, Rudolf | 1876 |
| 182909 | Fulling Mill | Eickemeyer, Rudolf | 1876 |
| 183169 | Knitting Machine, Circular | Hollen, William H.H. | 1876 |
| 183386 | Spinning Frame Spindle & Bobbin | Essex, Jeremiah | 1876 |
| 183432 | Washing Machine | Stone, Columbus | 1876 |
| 183517 | Bobbin Winder, Yarn | Thomas, Samuel | 1876 |
| 183619 | Warping Machine | Ashworth, John J. | 1876 |
| 183698 | Spinning Frame Spindle | Myers, Henry | 1876 |
| 184112 | Loom Harness Eyes, Metallic | Sherman, William F. | 1876 |
| 184404 | Spinning Machine Bobbin | Mawson, John | 1876 |
| 184569 | Loom Picker | Avery, Sylvanus | 1876 |
| 184637 | Fringe Machine | Lincoln, Jesse B. | 1876 |
| 184681 | Loom Shedding Motion | Wicks, Joseph | 1876 |
| 184689 | Knitting Machine | Appleton, Charles J. | 1876 |
| 184742 | Spinning Frame Spindle Step | Whorwell, Henry | 1876 |
| 184853 | Twisting Hay For Fuel | Ford, Nathan | 1876 |
| 185027 | Loom, Jacquard | Halton, Thomas J. | 1876 |
| 185041 | Loom Shuttle | Moore, Albert M. | 1876 |
| 185772 | Combing Machine, Wool | Metcalf, Samuel | 1876 |
| 185778 | Wash Bench | Pond, Daniel B. | 1876 |
| 185807 | Spinning Spindle Cap | Weiler, Charles | 1876 |
| 185847 | Spindle or Bolster Fastening | Aldrich, Aaron | 1877 |
| 185988 | Burring Machine, Wool | Trombley, Edward | 1877 |
| 186045 | Bobbin Winding | Rice, Israel L.G. | 1877 |
| 186108 | Horse Blanket & Carriage Robe | Chase, Lucius C. | 1877 |
| 186322 | Spinning Frame, Ring | Draper, William F. | 1877 |
| 186324 | Spinning Frame, Ring | Draper, George | 1877 |
| 186326 | Spindle Tension Regulator | Draper, George | 1877 |

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|--------|---------------------------------|------------------------|------|
| 186486 | Spinning Machine Bolster & Step | Luscomb, William S. | 1877 |
| 186602 | Loom, Tape, Automatic | Muller, Robert | 1877 |
| 186643 | Cloth Cutting Machine | Warth, Albin | 1877 |
| 186661 | Cloth Measuring Machine | Brown, Adna | 1877 |
| 186674 | Loom Shuttle | Hollowell, Albert | 1877 |
| 186796 | Spinning & Doubling Machine | Chapin, Henry A. | 1877 |
| 187063 | Loom Shuttle Spindle | Stevens, Edgar M. | 1877 |
| 187281 | Loom Shuttle Box Motion, Rotary | Hyde, James | 1877 |
| 187369 | Loom Shuttle, Narrow Ware | Fischer, George | 1877 |
| 187538 | Cotton Opener & Separator | Kitson, Richard | 1877 |
| 187597 | Yarn Sizing & Beaming Machine | Bullough, John | 1877 |
| 187695 | Basket, Stave | Jones, Horace C. | 1877 |
| 187696 | Knitting Machine | Abel, William H. | 1877 |
| 187820 | Fulling Mill | Colby, Charles T. | 1877 |
| 188281 | Loom Shuttle | Chamberlain, Dexter H. | 1877 |
| 188321 | Loom Picker | Walker, Samuel S. | 1877 |
| 188385 | Wool Cleaning Machine | Low, Oscar | 1877 |
| 188441 | Knitting Machine, Straight | Tiffany, Eli | 1877 |
| 188460 | Loom Shuttle | Anderson, Charles W. | 1877 |
| 188489 | Loom Shuttle | Wright, Augustus | 1877 |
| 188538 | Loom Temple | Porter, Alfred | 1877 |
| 188784 | Bobbin | Draper, William F. | 1877 |
| 188825 | Spinning Bobbin, Quill | Stanley, James C. | 1877 |
| 188926 | Loom Shuttle | Marbell, Ezra William | 1877 |
| 189002 | Loom Let Off | Widdup, Young | 1877 |
| 189099 | Rope Making Machine | Higby, Luther E. | 1877 |
| 189195 | Silk Dressing in Skeins Machine | Corron, Cesar | 1877 |
| 189243 | Bobbin | Mawson, John | 1877 |
| 189353 | Loom, Circular | Gillespie, James E. | 1877 |
| 189515 | Loom, Gimp | Stone, Robert | 1877 |
| 189633 | Loom Shuttle | Lewando, Charles | 1877 |
| 189838 | Warp Slasher | Briggs, Joseph | 1877 |
| 190422 | Drawing Frame Trumpet | Dawson, Patrick C. | 1877 |
| 190525 | Spinning Machine | Taft, Gustavus E. | 1877 |
| 190566 | Loom Shuttle | Dumas, Louis | 1877 |
| 190694 | Knitting Machine | Slack, James M. | 1877 |
| 190710 | Spinning Frame, Ring | Draper, William F. | 1877 |
| 190745 | Darning Last | Crowninshield, Mary B. | 1877 |
| 190756 | Spinning Machine Roll Support | Hardenbergh, Fayette | 1877 |
| 190783 | Loom Temple | Schlaf, Christain H. | 1877 |
| 191255 | Fabric, Metallic Thread | Posselt, Ernest | 1877 |
| 191526 | Loom Shuttle | Gilbert, Walter L. | 1877 |
| 191581 | Device Prevent Tape Unrolling | Gould, Arthur C. | 1877 |
| 191697 | Loom Stop Motion Fork Slide | McCaffery, Jr., John | 1877 |
| 191907 | Loom Temple | Waterbury, James E. | 1877 |
| 192040 | Loom Shedding Mechanism | Wolbold, Henry | 1877 |
| 192064 | Spinning Mule | George, Samuel | 1877 |
| 192296 | Loom Harness Making Machine | Sladdin, Joseph | 1877 |
| 192315 | Spinning Machine Top Roller | Whittemore, Samuel E. | 1877 |
| 192317 | Rope Making Machine | Whiton, David | 1877 |
| 192352 | Combing Machine, Wool | Smith, Leonard | 1877 |
| 192391 | Spinning Register & Stop Motion | Saunders, Benjamin | 1877 |
| 192424 | Spooling Machine Stop Motion | Fearon, Francis | 1877 |
| 192473 | Spindle | Whitman, Gilbert P. | 1877 |
| 192493 | Spindle & Bobbin | Draper, George | 1877 |
| 192580 | Loom Shuttle Box Mechanism | Hickey, Patrick | 1877 |
| 192655 | Bobbin & Holder | Nealon, Martin J. | 1877 |
| 192659 | Loom, Pile Fabric | Rothwell, John | 1877 |
| 192669 | Picker Teeth Making Machine | Aldrich, Robert | 1877 |
| 192692 | Loom Shuttle Spindle | Hamilton, James | 1877 |
| 192897 | Loom Temple | Burns, William H. | 1877 |
| 192962 | Cloth Measuring Machine | Baker, George P. | 1877 |

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|--------|--|---------------------------|------|
| 193094 | Cotton Opener & Cleaner | Kitson, Richard | 1877 |
| 193106 | Spooler Rock Shaft, Yarn | Bancroft, William | 1877 |
| 193141 | Spindle, Cordage Twisting | Brownell, Charles E. | 1877 |
| 193143 | Clothes Pin | Clearwater, Edwin F. | 1877 |
| 193193 | Cloth Finishing Machine | Springborn, Herrman | 1877 |
| 193207 | Thread Making Machine | Arnold, Andrew R. | 1877 |
| 193782 | Loom Shuttle Box Motion | Shinn, John | 1877 |
| 193887 | Spinning Mule | McGovern, Peter | 1877 |
| 194269 | Spinning Mule | Schon, Heinrich | 1877 |
| 194517 | Loom | Graham, Edmund H. | 1877 |
| 195767 | Loom Stop Mechanism | Megson, John | 1877 |
| 195810 | Fulling Mill | Eickemeyer, Rudolf | 1877 |
| 195883 | Loom Let Off | Buzzell, John P. | 1877 |
| 195884 | Cotton Batting Folding Machine | Catlow, Robert | 1877 |
| 195887 | Spinning Frame, Ring | Draper, George | 1877 |
| 195906 | Spinning Machine Cop Builder | Stone, Joseph M. | 1877 |
| 196694 | Loom | Oldfield, Edwin | 1877 |
| 197131 | Loom Shuttle | Higgins, Charles J. | 1877 |
| 197236 | Loom Temple | Wright, Daniel | 1877 |
| 197374 | Braiding Machine | James, George F. | 1877 |
| 197548 | Washing Machine, Wool Rinsing | Hall, Benjamin | 1877 |
| 197732 | Loom, Hair Cloth | Kenyon, Martin R. | 1877 |
| 197912 | Winding Machine, Yarn | Warburton, Howgate G. | 1877 |
| 198230 | Braiding Machine | Whelan, Frank | 1877 |
| 198289 | Basket | Fox, Abraham | 1877 |
| 198440 | Cloth Cutting Machine, Flock | Wilcox, Elijah | 1877 |
| 198463 | Cloth Finishing Machine | Leach, William | 1877 |
| 198555 | Loom Harness Mechanism | Wilber, Isaac L. | 1877 |
| 198696 | Basket | Sickler, Jacob W. | 1877 |
| 198757 | Knitting Machine, Straight | Tiffany, Eli | 1878 |
| 198787 | Fabric Guiding Machine | Birch, William | 1878 |
| 198876 | Hat Stretching Machine | Eickemeyer, Rudolf | 1878 |
| 198956 | Winding & Twisting Machine Stop Motion | Smith, Dexter | 1878 |
| 199040 | Spooling Machine Bobbin Holder | Doak, Horace | 1878 |
| 199270 | Felt Fabric Manufacturing, Ornamental | Daily, Parley A. | 1878 |
| 200034 | Hat Blocking & Banding Machine | Eickemeyer, Rudolf | 1878 |
| 200086 | Loom Temple | Pearson, Robert P. | 1878 |
| 200268 | Reel | Elliott, Sarah A. | 1878 |
| 200299 | Clothes Pin | Hotchkiss, Seymour L. | 1878 |
| 200302 | Cord Covering Machine | Huppelsberg, Friedrich W. | 1878 |
| 200321 | Speeder & Fly Frame Flyer | Macomber, William C. | 1878 |
| 200503 | Card Polishing & Finishing Machine | Buckton, William | 1878 |
| 200706 | Bobbin & Spool | Fay, Rimmon C. | 1878 |
| 200745 | Loom Shuttle | Mills, Guy C. | 1878 |
| 200814 | Loom Temple | Allen, Nicholas I. | 1878 |
| 200965 | Fabric, Tubular | Baker, Seth W. | 1878 |
| 201130 | Spinning Machine | Stanley, James C. | 1878 |
| 201302 | Spinning Ring | Trowbridge, Charles E. | 1878 |
| 201414 | Spindle Bobbin Socket | Hastings, Watson F. | 1878 |
| 201424 | Cotton Opener & Cleaner | Kitson, Richard | 1878 |
| 201629 | Knitting Machine Yarn Delivery | Paul, Archibald | 1878 |
| 201763 | Cop Tube | Essex, Jeremiah | 1878 |
| 201802 | Dynamometer, Test Yarn Strength | Lee, Mark | 1878 |
| 201835 | Tape Holder | Rice, Eliakim | 1878 |
| 201847 | Spinning Machine Spindle Step | Steele, William M. | 1878 |
| 201940 | Cotton Batting Making Machine | Norton, John L. | 1878 |
| 202211 | Plaiting Machine | Wilson, James E. | 1878 |
| 202339 | Loom Harness | Emmons, Thomas A. | 1878 |
| 202448 | Spindle, Silk | Martin, Elisha J. | 1878 |
| 202529 | Hat Pouncing Machine | Eickemeyer, Rudolf | 1878 |
| 202549 | Spooling Machine | Kershaw, Thomas | 1878 |
| 202550 | Doubling & Twisting Machine | Kershaw, Thomas | 1878 |

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|--------|------------------------------------|-----------------------|------|
| 202664 | Loom Shuttle Bobbin | Porter, Roger W. | 1878 |
| 202672 | Wool & Cotton Separater | Slater, John Y. | 1878 |
| 202675 | Loom Picker Staff Strap | Stone, Edward S. | 1878 |
| 202766 | Fiber Making Machine | Summers, Lucius P. | 1878 |
| 202900 | Cloth Cutting Machine | Warth, Albin | 1878 |
| 202929 | Loom Shuttle Bobbin | Buzzell, John P. | 1878 |
| 203139 | Loom Picker | Gordon, Albert A. | 1878 |
| 203142 | Embroidering Machine | Grobli, Isaac | 1878 |
| 203143 | Embroidering Machine | Grobli, Isaac | 1878 |
| 203183 | Loom, Circular | Morris, Henry | 1878 |
| 203195 | Embroidering Machine | Grobli, Isaac | 1878 |
| 203244 | Spinning Mule Winder Regulator | Colbrook, Charles H. | 1878 |
| 203355 | Fulling Mill | Mase, Willard H. | 1878 |
| 203401 | Cotton Bale Tie | Battle, Curran | 1878 |
| 203572 | Loom Shuttle Motion | Widmer, Jacob | 1878 |
| 203632 | Spinning Machine | Mackie, James B. | 1878 |
| 203653 | Loom Shuttle | Schurheck, Charles J. | 1878 |
| 203683 | Spinning Ring | Wheat, Franklin H. | 1878 |
| 203754 | Spinning Bobbin, Mohair | Mitchell, Tom | 1878 |
| 203857 | Net Making Machine | Squire, Wilbur J. | 1878 |
| 203895 | Loom Cone Pick | Davis, Hilar D. | 1878 |
| 204213 | Loom Picker | Grilley, Charles T. | 1878 |
| 204426 | Knitting Machine Cam | Denzler, Frederick | 1878 |
| 204495 | Braid Holder | Lyon, John C. | 1878 |
| 204523 | Braid or Ribbon Clasp | Barrows, William E. | 1878 |
| 204546 | Carpet | Duckworth, John C. | 1878 |
| 204717 | Loom Shuttle Attachment | Doherty, William A. | 1878 |
| 204801 | Spoke Throating Machine | Cramer, George | 1878 |
| 204832 | Spinning Ring & Traveler | Lamphear, Edwin T. | 1878 |
| 204951 | Cotton Condenser | Cook, Emanuel | 1878 |
| 205246 | Bobbin | Crowley, John D. | 1878 |
| 205281 | Cloth Finishing Machine | Marble, Edwin | 1878 |
| 205307 | Warping Machine | Shaw, Lorenzo | 1878 |
| 205355 | Basket | Cole, Isaac J. | 1878 |
| 205638 | Carpet | Hardwick, Harry | 1878 |
| 205794 | Loom Shuttle Box Motion | Goodyear, Robert B. | 1878 |
| 206068 | Loom Shuttle Motion, Wire Cloth | Asbach, Joseph | 1878 |
| 206155 | Spinning Ring Holder | Wattles, Joseph W. | 1878 |
| 206168 | Hat Stretching Machine | Eickemeyer, Rudolf | 1878 |
| 206192 | Washing Machine, Wool | Pendleton, Frank | 1878 |
| 206651 | Cloth Cutting Machine | Warth, Albin | 1878 |
| 206718 | Cloth Pressing Machine | Gessner, Ernest | 1878 |
| 207739 | Loom Picker | Holbrook, Albert | 1878 |
| 207796 | Plaiting Machine | Bradley, Milton | 1878 |
| 207912 | Fabric Measuring & Marking Machine | Talcott, Samuel C. | 1878 |
| 208774 | Spindle & Bobbin Spool | Wait, Oscar E. | 1878 |
| 208920 | Cloth Cutting Machine | Muehling, Alexander | 1878 |
| 209049 | Cotton Gin | Hull, James B. | 1878 |
| 209106 | Rope Making Machine | Binns, Leedham | 1878 |
| 209152 | Fulling Mill | Arnold, Alonza C. | 1878 |
| 209199 | Spinning Machine Spindle | Stanley, James C. | 1878 |
| 209229 | Fulling Mill Measuring Attachment | Clark, Theodore W. | 1878 |
| 209286 | Disintegrating Stalks of Hops | Nordlinger, Isaac D. | 1878 |
| 209317 | Spinning Mule | Baldwin, Eben A. | 1878 |
| 209318 | Spinning Mule | Baldwin, Eben A. | 1878 |
| 209376 | Rag Picker Lag | Belser, James H. | 1878 |
| 209419 | Loom Temple | Pearson, Robert P. | 1878 |
| 209489 | Spinning Machine Spindle Bearing | Macomber, William C. | 1878 |
| 209714 | Loom Shuttle Box Motion | Renwick, Henry B. | 1878 |
| 209727 | Spinning Flyer Lock | Thorwarth, John B. | 1878 |
| 209786 | Crocheting Machine | Young, Charles | 1878 |
| 209799 | Loom Harness | Crowell, John H. | 1878 |
| 209805 | Fabric, Nap or Plush | Goodall, Thomas | 1878 |

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|--------|------------------------------------|------------------------|------|
| 210222 | Carding Cylinder Roller | Pendleton, Frank P. | 1878 |
| 210292 | Loom Shuttle | Briggs, Henrick P. | 1878 |
| 210357 | Spinning Machine Spindle | Rabbeth, Francis J. | 1878 |
| 210358 | Spinning Machine Spindle | Rabbeth, Francis J. | 1878 |
| 210565 | Burring Machine | Sargent, Frederick G. | 1878 |
| 210670 | Loom Shuttle Box Mechanism | Colvin, Stephen | 1878 |
| 210678 | Cotton Condenser | Donovan, John T. | 1878 |
| 210736 | Loom, Leno | Aldred, Thomas | 1878 |
| 210770 | Hat Pinning Out Stretcher | Eickemeyer, Rudolf | 1878 |
| 210869 | Fringe | Moll, August | 1878 |
| 210930 | Cotton Opener & Cleaner | Ellis, Harvey | 1878 |
| 210977 | Bobbin | Wait, Oscar E. | 1878 |
| 211126 | Loom Shuttle Box Motion | Barker, John | 1879 |
| 211186 | Card Setting Machine | Russell, James | 1879 |
| 211215 | Washing Machine | Bennett, Ethan | 1879 |
| 211217 | Loom Weft Fork | Brainard, Benjamin | 1879 |
| 211218 | Spindle Bearing | Buttrick, Charles G. | 1879 |
| 211243 | Loom Shuttle | Leary, Michael | 1879 |
| 211444 | Fourdrinier Wire Cloth | Van Houten, Corneluis | 1879 |
| 211718 | Loom, Power | Duckworth, John C. | 1879 |
| 211903 | Drawing Frame | Grayson, Henry C. | 1879 |
| 212025 | Loom, Circular | Marshall, Chester P. | 1879 |
| 212102 | Carding Machine Driving Mechanism | Mallison, George | 1879 |
| 212120 | Loom Reed | Adamson, Edward | 1879 |
| 212202 | Knitting Machine | Dow, Josiah | 1879 |
| 212280 | Loom Temple | Stamour, John B. | 1879 |
| 212670 | Spinning Machine Top Roller | Fenton, Hiram C. | 1879 |
| 212707 | Loom Shuttle Mechanism | Kane, Charles I. | 1879 |
| 212725 | Spinning Machine Spindle | Miller, Joseph A. | 1879 |
| 212779 | Spinning Machine | Wrigley, Thomas | 1879 |
| 212790 | Scissors & Shears | Clarke, Alfred | 1879 |
| 212888 | Winding Machine, Yarn | Boyd, John | 1879 |
| 212893 | Thread Spool Tension Device | Burgess, Richard O. | 1879 |
| 212933 | Spindle Driving Mechanism | Herrick, Charles E. | 1879 |
| 213031 | Loom Shuttle, Metallic | Beatty, William | 1879 |
| 213196 | Roving Frame Flyer | Hazard, George J. | 1879 |
| 213207 | Loom Shuttle | Kane, Charles J. | 1879 |
| 213208 | Loom Shedding Mechanism | Kenison, Orrin W. | 1879 |
| 213876 | Card Clothing | Cunningham, Herman E. | 1879 |
| 214155 | Loom Shuttle | Johnston, John | 1879 |
| 214156 | Loom Shuttle | Johnston, John | 1879 |
| 214163 | Cotton Press | Matthews, James H. | 1879 |
| 214256 | Cotton Bale Band Tightener | Logue, Francis M. | 1879 |
| 214308 | Knitting Machine | Nelson, John | 1879 |
| 214317 | Loom Shuttle | Roberts, Thomas E. | 1879 |
| 214355 | Spindle Driving Mechanism | Braunsdorf, Julius E. | 1879 |
| 214356 | Spindle Driving Mechanism | Braunsdorf, Julius E. | 1879 |
| 214447 | Loom Temple Burr Roll | Prouty, Joel | 1879 |
| 214506 | Loom | Hunt, Robert H.H. | 1879 |
| 214522 | Knitting Machine | Pepper, William H. | 1879 |
| 214750 | Spinning Machine Spindle & Bearing | Birkenhead, John | 1879 |
| 214788 | Plaiting Machine | Panse, Friedrich | 1879 |
| 214794 | Lapping Machine | Stafford, James | 1879 |
| 214901 | Spinning Machine, Hemp | Furst, Michael | 1879 |
| 215142 | Spinning Machine Spindle | Mayor, Thomas | 1879 |
| 215239 | Warper | Plummer, Richard H. | 1879 |
| 215396 | Loom Temple | Quackenboss, Philip P. | 1879 |
| 215464 | Spinning Machine Roller | Kelly, Robert | 1879 |
| 215654 | Cotton Gin Saw Cleaning Attachment | Mulkey, George H. | 1879 |
| 215935 | Spinning Machine Spindle | Kelly, Dennis | 1879 |
| 215990 | Spooling Guide | Sullivan, Cornelius | 1879 |
| 215995 | Doubling & Winding Machine | Unsworth, Thomas | 1879 |

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|--------|------------------------------------|------------------------|------|
| 215999 | Carpet | Wallace, William | 1879 |
| 216125 | Knitting Machine | Aiken, Walter | 1879 |
| 216245 | Cloth Cutting Machine | Warth, Albin | 1879 |
| 216485 | Reel, Rope | Mason, Alvin C. | 1879 |
| 216508 | Loom Shuttle Box Mechanism | Burton, Joseph | 1879 |
| 216782 | Jacquard Card Punching Machine | Crompton, George | 1879 |
| 216839 | Cop Tube | Essex, Jeremiah | 1879 |
| 216947 | Loom Shuttle Motion | Cuthbert, George | 1879 |
| 216986 | Felted Fabric Manufacture | Waite, Enoch | 1879 |
| 216987 | Spinning Frame, Ring | Wattles, Joseph W. | 1879 |
| 217186 | Spool | Woodbury, Seth H. | 1879 |
| 217193 | Yarn Inking Machine | Archibald, John | 1879 |
| 217207 | Warping Machine, Yarn | Gibson, Everett G. | 1879 |
| 217247 | Silk Cleaning Apparatus | Swift, William B. | 1879 |
| 217354 | Knitting Machine | Essick, Samuel | 1879 |
| 217389 | Spinning Frame, Ring | Lanphear, Edwin T. | 1879 |
| 217520 | Cotton Press | Farley, Robert | 1879 |
| 217569 | Knitting Machine, Straight | Aiken, Walter | 1879 |
| 217572 | Basket | Ballou, Elmer | 1879 |
| 217589 | Loom, Dobby | Crompton, George | 1879 |
| 217769 | Winding Machine, Yarn | Boyd, John | 1879 |
| 218012 | Loom | Gillespie, James E. | 1879 |
| 218074 | Loom Temple, Tubular Fabric | Simon, Gottlieb F. | 1879 |
| 218279 | Spinning Frame Stop Motion | Knowles, J. Henry | 1879 |
| 218323 | Twister, Wire | Sedgwick, Isham | 1879 |
| 218428 | Bobbin | Carroll, William T. | 1879 |
| 218797 | Spinning Machine, Rope | Todd, Joseph C. | 1879 |
| 218823 | Combing Machine, Wool | Metcalfe, Samuel | 1879 |
| 218849 | Spinning Mule & Jack | Abbott, John | 1879 |
| 218969 | Loom, Straw Matting | Hilton, William | 1879 |
| 219159 | Loom Shuttle | Johnston, John | 1879 |
| 219259 | Cotton Cleaning Machine | Hasie, Montague S. | 1879 |
| 219561 | Hat Flanging Machine | Yule, George | 1879 |
| 219801 | Carpet Rag Looper | Clements, David | 1879 |
| 219963 | Fabric Damping Apparatus | Mather, William | 1879 |
| 220079 | Spinning Machine | Locke, Harvey | 1879 |
| 220130 | Loom, Fringe | Cremerieux, Balthazard | 1879 |
| 220158 | Spinning Machine Spindle | Lanphear, Edwin T. | 1879 |
| 220336 | Cotton Gin Feeder | Brown, Israel F. | 1879 |
| 220357 | Spinning Machine Spindle & Bearing | Duffy, Joseph | 1879 |
| 220362 | Loom Shuttle Spindle | Eaton, Isaac | 1879 |
| 220541 | Cotton Bale Band Tying Machine | Mathews, James H. | 1879 |
| 220579 | Loom | Cottrell, Jesse D. | 1879 |
| 220587 | Spindle Band Tension Indicator | Draper, William F. | 1879 |
| 220659 | Loom Shuttle | Roberts, Adna B. | 1879 |
| 220733 | Washing Machine, Wool | Sargent, Frederick D. | 1879 |
| 220847 | Skiving Machine | Langmaid, Charles E. | 1879 |
| 220931 | Loom, Fringe | McDonald, Laurence J. | 1879 |
| 220946 | Spinning Machine | Saunders, Benjamin | 1879 |
| 221159 | Drawing Step Mechanism | Dawson, Patrick C. | 1879 |
| 221191 | Loom Shuttle Spindle | Richardson, Orville P. | 1879 |
| 221237 | Loom Shuttle Box Mechanism | Knowles, Lucius J. | 1879 |
| 221268 | Spooling Machine Thread Guide | Atwood, John E. | 1879 |
| 221415 | Loom Shuttle | Miller, Henry J. | 1879 |
| 221431 | Cotton Cleaning Machine | Thorn, Joseph W. | 1879 |
| 221576 | Fabric Guide & Delivering Machine | Kerr, James | 1879 |
| 221772 | Winding Machine, Yarn | Boyd, John | 1879 |
| 221799 | Warping Machine, Expanding Reed | Entwistle, Thomas C. | 1879 |
| 222273 | Chenille Cutting Machine | Havers, Robert G. | 1879 |
| 222330 | Spinning Frame | Taft, Gustavus E. | 1879 |
| 222363 | Washing Machine, Skeins | Moriot, George | 1879 |
| 222366 | Cotton Gin | Reid, Henry N. | 1879 |

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| 222401 | Knitting Machine, Straight | Hitchcock, Marcena | 1879 |
| 222410 | Cotton Opener | Kitson, Richard | 1879 |
| 222527 | Fabric Cleaning, Starch | Palmer, Isaac E. | 1879 |
| 222619 | Knitting Machine, Straight | Young, Charles H. | 1879 |
| 222844 | Paper Box Making Machine | Simmons, Adolphus J. | 1879 |
| 222937 | Knitting Machine, Toy | Newcomb, James W. | 1879 |
| 223223 | Cloth Stamping Machine | Gibson, Everett G. | 1880 |
| 223261 | Silk Beating & Washing Machine | Urbahn, Alwill | 1880 |
| 223393 | Washing Machine, Wool | Sargent, Frederick G. | 1880 |
| 223534 | Loom, Tubular Fabric | Pont, Addie M. | 1880 |
| 223544 | Cloth Cutting Knife | Rubenstein, Nathan | 1880 |
| 223710 | Knitting Machine, Circular | Cornfield, Solomon | 1880 |
| 223721 | Cotton Gin | Ellis, Washington L. | 1880 |
| 223748 | Spinning Machine | Mitchell, Tom | 1880 |
| 223801 | Bobbins Fastener, Yarn | Cumnock, James W. | 1880 |
| 223865 | Spinning Machine | Schock, Henry | 1880 |
| 223974 | Loom Reed | Adamson, Edward | 1880 |
| 223976 | Loom Temple | Allen, Nicholas | 1880 |
| 223998 | Loom | Crompton, George | 1880 |
| 224046 | Knitting Machine, Circular | Shaw, Benjamin F. | 1880 |
| 224058 | Rope Twisting Machine | Van Houten, Cornelius | 1880 |
| 224170 | Paper From Pine Leaves Process | Fulton, Charles | 1880 |
| 224201 | Plaiting Machine | Maybee, M. Addie | 1880 |
| 224216 | Spinning Machine Spindle | Noble, George H. | 1880 |
| 224344 | Spinning Frame, Ring | Mayor, Thomas | 1880 |
| 224428 | Combing Machine | Duncommum, Paul | 1880 |
| 224438 | Chenille | Hupplesburg, Frederick W. | 1880 |
| 224545 | Picker Lag | Jones, Josiah N. | 1880 |
| 224700 | Spinning Machine | Keisling, Samuel | 1880 |
| 224790 | Loom Shuttle Spindle | Morrill, George E. | 1880 |
| 224797 | Loom Heddle | Schopp, Eduard | 1880 |
| 224949 | Printing, Calico & Fabric | Prang, Louis | 1880 |
| 225031 | Cloth Cutting Machine | Warth, Albin | 1880 |
| 225115 | Loom Shuttle Box, Drop | Doering, Justus | 1880 |
| 225181 | Spinning Frame Spindle | Taft, Gustavus E. | 1880 |
| 225217 | Thread Cleaner | Finigan, Thomas | 1880 |
| 225323 | Saw Table, Adjusting | Bennett, John | 1880 |
| 225673 | Loom Shuttle | Willis, Newiel J. | 1880 |
| 225852 | Loom, Jacquard | Miesch, John | 1880 |
| 226041 | Hat Pressing Machine | Cuming, Mari A. | 1880 |
| 226126 | Spinning Machine Yarn Guide | Stanley, James E. | 1880 |
| 226242 | Spinning Ring & Holder | Morse, Cyrus B. | 1880 |
| 226309 | Cordage Machine | Hall, James | 1880 |
| 226332 | Combing Machine | Little, George | 1880 |
| 226594 | Loom, Tubular Fabric | Cady, Henry W. | 1880 |
| 226903 | Loom Heddle | Crowell, John H. | 1880 |
| 227002 | Drawing Frame Stop Mechanism | Hayden, Daniel W. | 1880 |
| 227003 | Drawing Frame Stop Mechanism | Hayden, Daniel W. | 1880 |
| 227063 | Cotton Gin | Scattergood, Charles F. | 1880 |
| 227198 | Thread Doubling Machine | Atwood, John E. | 1880 |
| 227241 | Fabric | Fyfe, Alexander M. | 1880 |
| 227494 | Cloth Cutting Machine | Crotte, Joanny | 1880 |
| 227671 | Carding Machine Fleece Divider | Bolette, Jean S. | 1880 |
| 227940 | Cordage Machine | Winchester, Gilman | 1880 |
| 227964 | Braid Holder | Deane, Walter P. | 1880 |
| 228050 | Loom | Flagg, J. Melledege | 1880 |
| 228191 | Loom Shedding Mechanism | Halcroft, Henry | 1880 |
| 228233 | Button Making Machine | Wade, William W. | 1880 |
| 228248 | Basket, Fruit | Crandall, Hosea B. | 1880 |
| 228256 | Loom Temple | Hardaker, John | 1880 |
| 228309 | Fabric Creasing Machine, Fluted | Brosemann, Ernst | 1880 |
| 228346 | Loom Temple | Hamilton, Edward | 1880 |

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|--------|------------------------------------|-----------------------|------|
| 228372 | Loom, Gauze | McLean, Andrew | 1880 |
| 228580 | Loom Heddle | Ziegler, George | 1880 |
| 228589 | Loom, Circular | Ball, Albert | 1880 |
| 228809 | Spinning Machine Flyer | Foss, John F. | 1880 |
| 228837 | Loom Shuttle | Smith, Julian K. | 1880 |
| 229487 | Knitting Machine, Mattress | Townsend, Mathew | 1880 |
| 230122 | Suspender Strap Webbing | Fryer, John O. | 1880 |
| 230306 | Spindle Support, Ring | Mason, William | 1880 |
| 230509 | Spooling Machine Thread Guide | Trafton, Charles G. | 1880 |
| 230533 | Knitting Machine Thread Guide | Dennett, Alpheus A. | 1880 |
| 230591 | Loom, Jacquard | Uhlinger, William P. | 1880 |
| 230703 | Cloth Stretching Machine | Holt, Robert | 1880 |
| 231042 | Loom Shuttle | Holmes, William | 1880 |
| 231288 | Loom Shuttle | Eaton, Isaac | 1880 |
| 231380 | Spooling Machine Yarn Guide | Upton, George W. D. | 1880 |
| 231748 | Loom, Tubular Fabric | Arnold, Elijah | 1880 |
| 231773 | Loom Shuttle Spindle | Doe, George W. | 1880 |
| 231809 | Loom Temple, Self Acting | Hardaker, John | 1880 |
| 232021 | Spinning Waste Prevention | Garnett, Walter | 1880 |
| 232319 | Loom Shuttle Motion | Weber, Theodore A. | 1880 |
| 232330 | Silk Reel | Brooks, Samuel | 1880 |
| 233043 | Loom Temple | Stramour, John B. | 1880 |
| 233112 | Bobbin Winding Machine | Paul, Archibald | 1880 |
| 233267 | Loom Heddle | Maertus, Emile | 1880 |
| 233388 | Loom Shuttle Spindle | Williams, Henry A. | 1880 |
| 233551 | Loom Shuttle Motion | Ross, Lester E. | 1880 |
| 233555 | Loom Picker Staff Check | Sartwell, William E. | 1880 |
| 233629 | Fabric, Hat Sweat Band | Lanstrom, Reinhold | 1880 |
| 234521 | Loom | Biggsby, Arthur L. | 1880 |
| 234897 | Spindle Support Mechanism | Wattles, Joseph W. | 1880 |
| 235661 | Loom Shuttle Motion | Weber, Theodore A. | 1880 |
| 236110 | Loom | Thomas, Samuel | 1880 |
| 236278 | Jacquard Machine | Talbot, William | 1881 |
| 236698 | Knitting Machine, Circular | Blacklock, John | 1881 |
| 237106 | Loom Harness Coating Process | Gibbs, William H. | 1881 |
| 237896 | Winding Machine, Yarn | Parker, Samuel | 1881 |
| 238492 | Spinning Machine | Deal, Haslum A. | 1881 |
| 238538 | Loom Reed | Stewart, Thomas | 1881 |
| 238972 | Loom Shuttle, Wire Cloth | Sawyer, Caleb K. | 1881 |
| 239011 | Loom Shuttle, Wire Cloth | Wright, George F. | 1881 |
| 239012 | Loom Shuttle, Wire Cloth | Wright, George F. | 1881 |
| 239065 | Picker, Waste | Sargent, Frederick G. | 1881 |
| 239169 | Knitting Machine, Circular | Huse, Warren D. | 1881 |
| 239467 | Loom Temple, Roller | Draper, George | 1881 |
| 240645 | Bag, Woven | Bernstein, Samuel | 1881 |
| 241851 | Spinning Machine Roller Stand | Essex, Jeremiah | 1881 |
| 242084 | Felt Fabric, Imitate Seal Skin | Waring, John | 1881 |
| 242736 | Pointing Fur | Abraham, Benjamin | 1881 |
| 244041 | Hat Blocking & Shaping Machine | Eickemeyer, Rudolf | 1881 |
| 244580 | Rope Making Machine, Straw | Gardner, John | 1881 |
| 245362 | Fulling Mill | Eickemeyer, Rudolf | 1881 |
| 245856 | Twisting Machine | Murray, William | 1881 |
| 245878 | Spinning & Doubling Machine, Silk | Seymour, Francis | 1881 |
| 246230 | Loom Shuttle | Sohn, John W. | 1881 |
| 246637 | Loom Shuttle | Rigby, John | 1881 |
| 247126 | Cotton Prepared For Transportation | Smith, William H. | 1881 |
| 247522 | Spindle Bearing | Stanley, James C. | 1881 |
| 247944 | Embroidering Machine | Nida, Charles | 1881 |
| 248392 | Plaiting Machine | Berrien, Leonard B. | 1881 |
| 248719 | Knitting Machine Attachment | Denton, James | 1881 |

| Patent | Invention | Inventor | Year |
|--------|------------------------------------|-----------------------|------|
| 248795 | Knitting Machine | Rist, Joel W. | 1881 |
| 249289 | Spinning & Doubling Machine | Bastow, John | 1881 |
| 249988 | Loom Shuttle | Pratt, Charles T. | 1881 |
| 250485 | Cotton Gin Saw Filing Machine | Barron, Thomas J. | 1881 |
| 251072 | Cotton Gin Feeder | Sterritt, Joseph | 1881 |
| 251118 | Cord, Rope & Band Making Machine | James, George F. | 1881 |
| 251815 | Spindle, Twister Frame | Bancroft, Joseph B. | 1882 |
| 255501 | Chenille Fringe | Graham, John C. | 1882 |
| 255519 | Carding Machine Feeding Device | Lemaire, Jean T. | 1882 |
| 257057 | Loom Temple | Noble, William H. | 1882 |
| 257198 | Spinning Machine, Ring | Worrall, John F. | 1882 |
| 258947 | Cloth Stretching Machine | Upham, Frederick | 1882 |
| 260589 | Ornamenting Fur & Other Goods | Mayer, Amalia | 1882 |
| 261415 | Knitting Machine Take Up | Abel, William H. | 1882 |
| 262436 | Loom Heddle | Lairdieson, John L. | 1882 |
| 262467 | Knitting Machine | Parr, James A. | 1882 |
| 266147 | Chenille Manufacturing | Hensel, George F. | 1882 |
| 266361 | Loom Shuttle Motion | Greenway, John | 1882 |
| 268149 | Tapestry, Needle Woven | Tillinghast, Mary E. | 1882 |
| 270749 | Chair Seat | Comstock, Issac D. | 1883 |
| 272561 | Knitting Machine | Leighton, George A. | 1883 |
| 272762 | Clothes Pin | Perkins, Richard B. | 1883 |
| 276606 | Lap Forming Machine | Lemaire, Jean T. | 1883 |
| 277074 | Silk Doubling Machine | Singleton, George | 1883 |
| 284208 | Cotton Pres | Ivens, Edmund M. | 1883 |
| 285767 | Loom, Moquette Carpet | Skinner, Halcyon | 1883 |
| 286460 | Spinning Mule Winding on Mechanism | McConnell, William | 1883 |
| 287808 | Stocking, Felted Woolen | Davis, Wilbur | 1883 |
| 289582 | Fabric, Figured | Urbahn, Alwill | 1883 |
| 289731 | Loom | Urbahn, Alwill | 1883 |
| 293363 | Stocking Manufacture | Schilling, Edward | 1884 |
| 296377 | Spindle Driving Mechanism | Atwood, John | 1884 |
| 301824 | Chenille Fringe | McDonald, Lawrence J. | 1884 |
| 304178 | Knitting Machine | Cooley, Truman | 1884 |
| 333819 | Spinning Frame, Ring | Bourcart, Jean J. | 1886 |
| 335208 | Spinning Machine | Bourcart, Jean J. | 1886 |
| 342988 | Fabric Manufacture, Paper | Wyman, Charles P. | 1886 |
| 346673 | Fabric Manufacture, Woven | Mitchell, Abraham | 1886 |
| 353433 | Fringe Manufacture, Woven | Steinecke, Samuel | 1886 |
| 353869 | Carpet, Imitation Turkish | Kohn, Alois | 1886 |
| 354711 | Cloth, Oil Cloth Waste Use | Lance, William L. | 1886 |
| 354767 | Fabric, Figured Woven | Brown, William | 1886 |
| 356836 | Fabric, Woven | Hoult, Cyrus | 1887 |
| 357226 | Spinning Cap Step | Pickford, George | 1887 |
| 358452 | Fringe Manufacture, Netted | Jackson, Charles W. | 1887 |
| 359862 | Fabric, Multiple Ply | Hardwick, Harry | 1887 |
| 360432 | Fabric, Elastic | Green, Jr., Joseph | 1887 |
| 360482 | Carpet, Ingrain | Read, Frederick | 1887 |
| 361360 | Fabric, Woven | Hunt, Robert H.H. | 1887 |
| 363900 | Carpet, Color | Marchetti, Giulio | 1887 |
| 365755 | Clothes Pin | Moore, Solon E. | 1887 |
| 366198 | India Matting | Bicknell, George J. | 1887 |
| 369276 | Fabric, Seersucker | Cumnock, John | 1887 |
| 371563 | Knitting Machine | Esty, William | 1887 |
| 371572 | Carpet, Ingrain, Three Ply | Folsom, James L. | 1887 |
| 377421 | Bobbin Winder, Automatic | Bell, Carl | 1888 |
| 379033 | Fringe, Chenille | Schmidt, Christian A. | 1888 |
| 382157 | Carpet | Hardwick, Harry | 1888 |
| 388425 | Basket | Little, Elizabeth N. | 1888 |
| 388682 | Carpet | Humphries, John | 1888 |
| 393958 | Loom Shuttle | Bardsley, Henry | 1888 |

| Patent | Invention | Inventor | Year |
|--------|--------------------------------|--------------------------------|------|
| 395242 | Fabric, Terry | Leake, Frank | 1888 |
| 395462 | Fabric, Figured | Taylor, Thomas | 1889 |
| 397240 | Fiber From Pine Needles | Latimer, William | 1889 |
| 398812 | Thimble, Broom Makers | Albert, Daniel W. | 1889 |
| 402844 | Fabric, Corded or Elastic | Lapworth, William | 1889 |
| 407078 | Loom Heddle Frame | Ladd, Calvin | 1889 |
| 409931 | Fabric, Chenille | Crabtree, James | 1889 |
| 410839 | Elastic Webbing | Lamb, Elijah | 1889 |
| 411040 | Fabric, Woven | Kerr, David B. | 1889 |
| 413534 | Fabric, Satin Faced | Morrell, Richard B. | 1889 |
| 413746 | Spinning Frame Kink Arrestor | Wilmarth, Thomas D. | 1889 |
| 416052 | Twine | Clark, Benjamin P. | 1889 |
| 416225 | Fabric, Woven | Kerr, David B. | 1889 |
| 418412 | Carpet | Jagger, Joseph | 1889 |
| 419395 | Fabric, Elastic | Woodward, Albert C. | 1890 |
| 419516 | Carpet | Gray, William | 1890 |
| 420269 | Carpet or Upholstered Fabric | Griffith, Jr., Goldsborough S. | 1890 |
| 426152 | Cloth, Ornamental | Unger, Herrman | 1890 |
| 427700 | Fabric, Machine Belting | Maddox, Joshua P. | 1890 |
| 427719 | Bobbin, Flanged | Wilson, Joshua | 1890 |
| 429378 | Clothes Dryer | Fuller, Benjamin F. | 1890 |
| 432763 | Carpet, Moquette | Patterson, Robert F. | 1890 |
| 435445 | Fabric, Napped Cotton | Ott, Frederick | 1890 |
| 435719 | Fabric, Excelsior | Adams, James A. | 1890 |
| 436529 | Carpet, Moquette & Wilton | Loynd, Richard B. | 1890 |
| 438064 | Carpet, Ingrain, Two Ply | Dorman, Thomas B. | 1890 |
| 438065 | Fabric, Two Ply | Dorman, Thomas B. | 1890 |
| 438202 | Fabric, Umbrella | Takaki, Samro | 1890 |
| 443095 | Carpet, Ingrain | Keefer, William B. | 1890 |
| 451438 | Hemp Brake and Cleaner | Shely, John D. | 1891 |
| 451743 | Fabric, Double Faced Plush | Tonnar, Felix | 1891 |
| 457288 | Carpet, Ingrain | Patterson, Hugh | 1891 |
| 459325 | Feed Roller | Whitney, Baxter D. | 1891 |
| 465045 | Bobbin | Keene, Samuel D. | 1891 |
| 472215 | Carpet, Ingrain | Harvey, George H. | 1892 |
| 472216 | Fabric, Woven | Harvey, George H. | 1892 |
| 474883 | Fabric, Woven | Urbahn, Alwill | 1892 |
| 477205 | Printing & Embossing Fabric | Farmer, James | 1892 |
| 480855 | Fabric, Woven | McCallum, Irving | 1892 |
| 483078 | Fabric, Figured Woven | Morton, Alexander | 1892 |
| 483977 | Fabric, Double Faced Pile | Coley, Joseph | 1892 |
| 484537 | Fabric, Woven | Marsden, Luther H. | 1892 |
| 487352 | Guiding Edges of Textile Webs | Scholfield, Joseph J. | 1892 |
| 491434 | Bobbin Winding Machine | Marshall, Charles S. | 1893 |
| 491693 | Fabric, Pile | Webb, Albert | 1893 |
| 493093 | Quill Winder | Jones, Corry | 1893 |
| 494380 | Braiding Machine Carrier | McCahey, John | 1893 |
| 494669 | Felted Woolen Net Undergarment | Clement, Ferdinand J.H. | 1893 |
| 497294 | Carpet, Ingrain | Acheson, Samuel J. | 1893 |
| 505203 | Loom Shuttle | Keeley, John W. | 1893 |
| 509138 | Fabric, Pile | Raab, Josef | 1893 |
| 512694 | Fabric, Seamless Figured | Giffin, Robert K. | 1894 |
| 514809 | Fabric, Chenille | Binns, Leedham | 1894 |
| 518458 | Dye, Blue | Krekeler, Karl | 1894 |
| 522555 | Fabric, Woven | Connell, Walter G. | 1894 |
| 524321 | Fabric, Woven | Hardwick, Harry | 1894 |
| 533690 | Carpet | Whittall, Mathew J. | 1895 |
| 539699 | Dye, Blue | Moeller, Max | 1895 |
| 543747 | Dye, Black Azo | Moeller, Max | 1895 |
| 546639 | Drawing Roller | Campbell, Robert G. | 1895 |
| 546677 | Loom Shuttle Thread Tension | Owen, Herbert W. | 1895 |

| Patent | Invention | Inventor | Year |
|--------|---------------------------------|-------------------------|------|
| 547608 | Fabric, Pile | Hope, Herbert J. | 1895 |
| 548747 | Carpet, Ingrain | Dornan, Thomas B. | 1895 |
| 550093 | Fabric, Knit, Abdominal Support | Bennett, Charles F. | 1895 |
| 556705 | Loom Shuttle | Stimpson, Edward S. | 1896 |
| 559306 | Loom Shuttle, Self Threading | O'Connell, Patrick J. | 1896 |
| 563455 | Loom Shuttle | Daudelin, Jean B. | 1896 |
| 567286 | Fabric, Figured | Zimmerman, John | 1896 |
| 568206 | Loom Shuttle, Self Threading | Northrop, James H. | 1896 |
| 568207 | Loom Shuttle, Self Threading | Northrop, James H. | 1896 |
| 568319 | Loom Shuttle, Self Threading | Northrop, James H. | 1896 |
| 569862 | Loom Shuttle, Self Threading | Draper, William F. | 1896 |
| 570174 | Bag, Woven | Knight, Jesse A. | 1896 |
| 574023 | Carpet | Dornan, Thomas B. | 1896 |
| 574387 | Fabric, Multiple Ply | Buckler, James | 1897 |
| 576356 | Cop & Cap Winding Apparatus | Wardwell, Jr., Simon W. | 1897 |
| 578592 | Card Clothing | Ashworth, Elijah | 1897 |
| 578742 | Fabric | Heald, Alfred | 1897 |
| 579164 | Fabric, Woven | McAuliffe, Thomas | 1897 |
| 585385 | Carpet or Smyrna Rug | Hornig, Gottfried | 1897 |
| 585626 | Fabric, Stiffening | Hirsch, Nathan | 1897 |
| 588301 | Fabric, Stiffening | Warren, Edward K. | 1897 |
| 589720 | Garment Edging | Haase, Henry | 1897 |
| 591370 | Loom Shuttle, Self Threading | Draper, George O. | 1897 |
| 593550 | Cloth Guiding Machine | Scholfield, Joseph J. | 1897 |
| 593997 | Design Transfer Method | Fish, William R. | 1897 |
| 596267 | Fabric, Woven | Honsch, Carl F. | 1897 |
| 597672 | Fabric, Tubular | Fitz, William B. | 1898 |
| 598480 | Loom Shuttle, Self Threading | Northrop, James H. | 1898 |
| 599191 | Rope, Ornamental | Oehrle, Franklin W. | 1898 |
| 599860 | Loom Shuttle, Self Threading | Nason, Joseph H. | 1898 |
| 599861 | Loom Shuttle, Self Threading | Nason, Joseph H. | 1898 |
| 600053 | Loom | Crompton, Charles | 1898 |
| 600692 | Knitting Machine Needle | Huke, Herman | 1898 |
| 605783 | Fabric, Woven | Heald, Alfred | 1898 |
| 609031 | Stocking, Elastic | Kendrick, Arthur B. | 1898 |
| 609450 | Weaving Needle | Morris, Edmond | 1898 |
| 610742 | Carpet, Ingrain, Two Ply | Hardwick, Harry | 1898 |
| 611104 | Fabric, Double Plush | Claviez, Emil | 1898 |
| 617772 | Fabric, Colored Design | Rettig, Fritz | 1899 |
| 621522 | Carpet, Ingrain | Dornan, Thomas B. | 1899 |
| 621641 | Chenille | Engstfeld, Ernst | 1899 |
| 622237 | Fabric, Woven | Kerr, James E. | 1899 |
| 624123 | Carpet | Stevenson, John | 1899 |
| 625033 | Thread, Celluloid Manufacture | Hoyne, James F. | 1899 |
| 630573 | Fabric | Smith, Robert R. | 1899 |
| 631310 | Fabric, Spangled | Kursheedt, Alphonse | 1899 |
| 633496 | Garment Edge Protection | Weber, Aaron M. | 1899 |
| 639518 | Fabric, Double Faced | Caldwell, James | 1899 |
| 648567 | Carpet, Ingrain | Keefer, William B. | 1900 |
| 665384 | Spindle Bobbin Holder | Deeley, James S. | 1901 |
| 666253 | Fabric, Woven | Aeberli, William | 1901 |
| 683190 | Dye, Brown & Process | Taggesell, Richard | 1901 |
| 683340 | Fabric, Figured Double Pile | Schwartz, Rudolf | 1901 |
| 684318 | Loom Shuttle | Sergeson, James C. | 1901 |
| 685524 | Fabric, Woven Insoles | McIlwain, William | 1901 |
| 687636 | Felt, Metal | Koch, Karl | 1901 |
| 699019 | Lace, Representing Moziac Work | Saunier, Ermans E. | 1902 |
| 701775 | Jacquard Card | Szczepaink, Jan | 1902 |
| 710767 | Loom Weft Stop | Fair, George | 1902 |
| 731433 | Fabric, Pile | Cookson, Richard S. | 1903 |
| 731715 | Reed, Paper | Shaw, Frank J. | 1903 |

| Patent | Invention | Inventor | Year |
|--------|-----------------------------------|-----------------------|------|
| 736500 | Loom Shuttle, Automatic Threading | Cumnock, Robert L. | 1903 |
| 755561 | Loom Shuttle, Hand Threading | Brown, David | 1904 |
| 761554 | Fabric, Woven | Stevenson, William M. | 1904 |
| 775589 | Loom Shuttle | Welton, James E. | 1904 |
| 780231 | Loom Shuttle, Self Threading | Sackett, Charles E. | 1905 |
| 781349 | Fabric, Tubular | Moore, George D. | 1905 |
| 788162 | Spinning Machine | Mathewson, Arthur L. | 1905 |
| 788937 | Loom Shuttle | Nason, Joseph H. | 1905 |
| 823626 | Loom Shuttle, Self Threading | Northrop, Jonas | 1906 |
| 838350 | Cellulose Derivative & Process | Miles, George W. | 1906 |
| 920828 | Cellulose Process | Cross, Frederick | 1909 |
| 950435 | Proteo Cellulosic Process | Chavassieu, Henri L. | 1910 |

Glossary

- ASSIGNEE.** A person or organization to whom patent rights are transferred to by the inventor. This often happens when an inventor is working for a company that requires him to apply for the patent and then transfer his patent rights to his employer.
- CALICO.** A general term used for plain cotton cloth of a coarse quality, e.g., coarser than muslin. It was not until the end of the 18th century that calico came to mean the lowest quality of printed cloth.
- CARD.** A rectangular wooden implement covered with wire teeth used in pairs to card fibers by hand (see **CARDING**).
- CARDING.** An operation, prior to spinning, in which fibers (usually wool) are disentangled by the brushing action of two closely spaced "toothed" surfaces, which loosely align the fibers into a roll (see **SLIVER**).
- COMBING.** The process of straightening and making parallel fibers of equal lengths in preparation for spinning into yarn. Any impurities and short fibers are removed by combs, in combination with brushes and rollers.
- COP.** A tapered cylinder of yarn used to fill the loom shuttle.
- COTTON WHIPPER.** A machine that cleans cotton by beating or whipping the uncleaned cotton with rotating spikes causing foreign matter to fall out and clumps of cotton to separate.
- DOCTOR.** Blade on a printing machine that removes surplus ink or coloring matter from the printing cylinder.
- FANCY POWER LOOM.** A loom that operates by mechanical means rather than by hand power and produces cloth with an overall woven pattern.
- FLYER.** An inverted U-shaped metal guide, the center of which is attached to the tip of the spindle, typically on a spinning machine. The yarn is twisted by the rotation of the arm (guide) around the bobbin.
- GINGHAM.** A plain-woven cotton cloth consisting of two or more colors that form simple checks, plaids, or stripes.
- HAIR CLOTH.** Cloth constructed of a weft of hair from the mane or tail of a horse and a warp of cotton or linen. The fabric was once popular for upholstering furniture.
- HARNESS.** The part of a loom consisting of the frame and heddles by which the shedding motion is accomplished (see **SHEDDING**).
- HEDDLE.** A cord, wire, or thin flat steel strip with an eye near the center, through which a warp end is drawn. Heddles make up the harnesses that control the shedding action of the loom.
- JACKS.** An intermediate level on a straight knitting machine that transmits motion to the sinkers.
- KNOTTED COUNTERPANE.** A bed cover woven of cotton with a raised decorative pattern.
- LET-OFF.** A mechanism for controlling the motion of a loom that releases warp yarns from the warp beam during weaving (see **TAKE-UP**).
- NAPPING.** A finishing process used in raising a fibrous surface or nap from the basic structure of the fabric, usually woolen. This process is also called teasing or gigging.
- PICKER.** A machine used in fiber preparation to remove foreign matter and break apart the matted cotton or wool.
- ROVING.** A long, loose, and continuous strand consisting of wool or cotton fibers that have a slight twist. Also the process of preparing the fibers for spinning into yarn.
- SATINET.** A woven cloth made with a cotton warp and a woolen filling.
- SHEARING MACHINE.** A machine, used in cloth finishing, that cuts uneven thread from the face of the cloth in order to achieve a uniform height.
- SHED.** In weaving, the opening between the warp threads through which the shuttle passes and inserts the filling.
- SHEDDING.** The operation of producing a shed.
- SHUTTLE.** A device that carries the filling yarn through the shed in the process of weaving. There are different types of shuttles. A typical shuttle is a hollow wooden boat-shaped device that contains a bobbin wound with filling yarn.
- SHUTTLE-TONGUE.** A slender metal rod in the center cavity of the shuttle upon which the filling yarn is wound.
- SLAY or SLEY.** The number of warp ends per inch in cloth. Its meaning has been extended to include "high sley" denoting a cloth with a large number of warp threads per inch.
- SLUBBING.** The relatively thick, slightly twisted strands of fibers ready for spinning.
- SLIVER.** Continuous, loosely assembled fibers, in rope form, which lack twist. The process of carding produces fibers in this condition.
- SPEEDER.** A machine used in cotton yarn spinning that inserts a slight twist in the sliver and winds it on the bobbin. At this stage, the **SLIVER** is called **ROVING**.
- SPINDLE.** A slender, tapered metal rod that rotates, upon which are fitted spools, bobbins, etc., used in such processes as spinning, spooling, or quilling. Spindles can also be used to produce twist in yarn.
- STOP MOTION MECHANISM.** A device utilized on textile machines to halt them automatically if the material being processed (i.e., thread, roving, etc.) is broken or depleted.

STUFFER THREAD. Additional yarns used to increase the weight, firmness, or thickness of a fabric. The yarn can be used either as warp or weft.

TAKE-UP. A mechanism that controls the rate at which cloth is wound forward during weaving.

TEAZLING. See **NAPPING.**

TEMPLES. Devices on each side of a loom frame designed to keep the cloth at a uniform width during weaving.

THROSTLE. A type of spinning or twisting frame developed in 1790 based on Richard Arkwright's waterframe of 1769. Arkwright (1732–1792), an Englishman, invented cotton spinning machinery using a continuous spinning method operated by water power.

TOW. Short coarse flax or hemp fibers that are separated from longer, finer fibers during hackling (a combing process). It is mostly used for spinning into low grade yarn or twine.

WARP. Yarns running lengthwise in a woven fabric, parallel

to the selvage and interwoven with the **WEFT.**

WEFT. The yarns of a woven fabric running from selvage to selvage at right angles to the warp. Also called "filling" or "woof."

References Consulted

- Burnham, Dorothy K. *Warp and Weft*. Toronto: Royal Ontario Museum, 1980.
- Cole, George S. *Cole's Encyclopedia of Dry Goods*. New York: Root Newspaper Association, 1900.
- Farnfield, Carolyn A., editor. *Textile Terms and Definitions*. 7th edition. Manchester: The Textile Institute, 1975.
- Higgins, Alfred, and Rudolph L. LaVault. *A Comprehensive Dictionary of Textile Terms*. Fall River: Dover Press, 1948.
- Jeremy, David J. *Transatlantic Industrial Revolution: The Diffusion of Textile Technologies between Britain and America, 1790-1830s*. North Andover: Merrimack Valley Textile Museum and Cambridge: The M.I.T. Press, 1981.
- Wingate, Isabel B. *Fairchild's Dictionary of Textiles*. 6th edition. New York: Fairchild Publication, 1979.

Selected Bibliography

This bibliography is a combination of two subject areas, textile technology and information on patents. It is not intended to be all encompassing of the fields but rather a compilation of the literature relating to the period that is the subject of this catalog.

Of the materials listed in the bibliography, some were more helpful than others depending on their scope, content, and readability. To those unfamiliar with the patent literature, an advantageous beginning would be to read the section on patents and the National Archives in Eugene Ferguson's *Bibliography of the History of Technology*. Secondly, Nathan Reingold's article "U.S. Patent Office Records as Sources for the History of Invention and Technological Property" is valuable for his concise overview of the patent records in the National Archives.

Of all the journals researched, the *Journal of the Franklin Institute* proved to be the most useful in providing technical information for this catalog. The early volumes are particularly

important for their pre-1836 patent information; for certain patents, they are the only source of information. The four volumes of the *Journal of the American Institute* also contain useful technical information, and the reports of the fairs of the American Institute relate interesting details about different machines and inventors. *Scientific American*, although in general an important journal for technical information, is of limited value because it did not begin publication until 1845.

Other recommended publications include the Rays' book entitled *The Art of Invention: Patent Models and Their Makers*, for its exquisite color photographs of patent models, and the Hagley Museum's catalog entitled *Little Machines: Patent Models in the Nineteenth Century*, written by Ferguson and Baer. The latter publication is suggested for its readable synopsis of the patent system and a selection of patent models in the museum. The Cooper-Hewitt Museum's catalog, *American Enterprise: Nineteenth-Century Patent Models*, is excellent for both its photographs and essays.

- Bishop, J. Leander. *A History of American Manufactures from 1608 to 1860*. Third edition, 3 volumes. Philadelphia: Edward Young & Co., 1868.
- Burke, Edmund, compiler. *List of Patents for Inventions and Designs Issued by the United States, from 1790 to 1847*. Washington, D.C.: J. & G.S. Gideon, 1847.
- Calvert, Monte A. "The Technology of the Woolen Cloth Finishing Industries from Ancient Times to the Present, with Special Emphasis on American Developments 1790-1840, and the Processes of Fulling, Napping and Shearing." *Merrimack Valley Textile Museum Research Report*, 1963, 89 pages.
- Clark, Charles H. "John Thorp—Inventor of Ring Spinning." *Transactions of the National Association of Cotton Manufactures*, 124/125(1928):72-95.
- Cole, Arthur H. *The American Wool Manufacture*. 2 volumes. Cambridge: Harvard University Press, 1926. [Reprint New York and Evanston: Harper and Row, 1969.]
- Cooper, Grace Rogers. *The Sewing Machine: Its Invention and Development*. Washington, D.C.: Smithsonian Institution Press, 1976.
- Cooper-Hewitt Museum. *American Enterprise: Nineteenth-Century Patent Models*. New York: Smithsonian Institution, 1984.
- Dictionary of American Biography*, volumes 1-20 (1928-1936). New York: Charles Scribner's Sons.
- Dood, Kendall J. "Patent Models and the Patent Law: 1790-1880 (Part I)." *Journal of the Patent Office Society*, volume 65 (April 1983), pages 187-216.
- . "Patent Models and the Patent Law: 1790-1880 (Part II)." *Journal of the Patent Office Society*, volume 65 (May 1983), pages 234-274.
- Early Unnumbered United States Patents 1790-1836*. Woodbridge, Virginia: Research Publications, Inc., 1980.
- Ferguson, Eugene S. "Patents." In *Bibliography of the History of Technology*, pages 102-109. London: The Society for the History of Technology, and Cambridge: M.I.T. Press, 1968.
- Ferguson, Eugene S., and Christopher Baer. *Little Machines: Patent Models in the Nineteenth Century*. Greenville: The Hagley Museum, 1979.
- Frederico, P.J., editor. "Outline of the History of the United States Patent Office." *Journal of the Patent Office Society*, volume 18 (July 1936), pages 5-251.
- Gilroy, Clinton G. *The Art of Weaving, by Hand and by Power*. New York: George D. Baldwin, 1844.
- Hayes, John L. *American Textile Machinery*. Cambridge, Massachusetts: Cambridge University Press, 1879.
- Hitz, Elizabeth. "Technical and Business Revolution: American Woolens to 1832". Doctoral dissertation, New York University, 1978.
- Hogan, Donald W. "Unwanted Treasures of the Patent Office." *American Heritage*, volume 9, number 2 (February 1958), pages 16-19, 101-103.
- Jeremy, David J. "Innovation in American Textile Technology during the Early 19th Century." *Technology and Culture*, volume 14 (January 1973), pages 40-76.
- . *Transatlantic Industrial Revolution: The Diffusion of Textile Technologies between Britain and America, 1790-1830s*. North Andover, Massachusetts: Merrimack Valley Textile Museum, and Cambridge: The M.I.T. Press, 1981.
- . "Invention in American Textile Technology during the Early Nineteenth Century, 1790-1830." In *Working Papers from the Regional Economic History Research Center*, volume 5, number 4 (1982), pages 1-45.
- Journal of the American Institute*, volumes 1-4 (1836-1840). [No volume was published in 1839.]
- Journal of the Franklin Institute*, whole volumes 1-34 (1826-1842). [Whole volume numbers 5-30 (1828-1840) have dual numbering as new series volumes 1-26; whole volume numbers 31 through 34 (1841-1842) have dual numbering as third series volumes 1-4. The series volume numbers are cited herein.]
- Lozier, John William. "Taunton and Mason: Cotton Machinery and

- Locomotive Manufacture in Taunton, Massachusetts, 1811–1861.” Doctoral dissertation, Ohio State University, Columbus, 1978.
- MacMurry, R.R. “Technological Change in the American Cotton Spinning Industry, 1790–1836.” Doctoral dissertation, University of Pennsylvania, Philadelphia, 1970.
- McMahon, Adrian M., and Stephanie A. Morris. *Technology in Industrial America, The Committee on Science and the Arts of the Franklin Institute, 1824–1900*. Wilmington: Scholarly Resources, Inc., and Philadelphia: The Franklin Institute, 1977.
- Montgomery, James. *A Practical Detail of the Cotton Manufacture of the United States of America....* Reprinted edition. New York and London: Johnson Reprint Co., 1968. [Original edition 1840, Glasgow: John Niven.]
- Navin, Thomas R. *The Whitin Machine Works Since 1831*. Cambridge: Harvard University Press, 1950.
- Odell, Rice. “Patent Models Recall Creativity of Early America.” *Smithsonian*, volume 4, number 1 (April 1973), pages 58–65.
- Paulauskas, James A., compiler. *Additional Improvement Patents, 1837–1861*. [Special list number 39 of The National Archives and Records Service.] Washington, D.C.: General Services Administration, 1977.
- Post, Robert C. *Physics, Patents and Politics*. New York: Science History Publications, 1976.
- Ray, William and Marlys. *The Art of Invention: Patent Models and Their Makers*. Princeton: Pyne Press, 1974.
- Reingold, Nathan. “U.S. Patent Office Records as Sources for the History of Invention and Technological Property.” *Technology and Culture*, volume 1 (spring 1960), pages 156–167.
- Riznik, Barnes. “New England Wool-Carding and Finishing Mills, 1790–1840.” *Old Sturbridge Village Research Report*. Sturbridge, Massachusetts: Old Sturbridge Village, 1964.
- Scientific American*, volumes 1–5 (1845–1850).
- Skinner, I.L., editor. *The American Journal of Improvements in the Useful Arts, and Mirror of the Patent Office in the United States*, volume 1, number 1 (January, February and March, 1828). Washington, D.C.: William Greer.
- Subject Matter Index of Patents for Inventions Issued by the United States Patent Office from 1790–1873, Inclusive*. 3 volumes compiled and published under M.D. Leggett. Washington, D.C.: U.S. Patent Office, 1874.
- U.S. Patent Office. *An Account of the Destruction by Fire of the North and West Halls of the Model Room in the United States Patent Office Building on the 24th of September 1877 together with a History of the Patent Office from 1790–1877*. Washington, D.C.: U.S. Patent Office, 1877.
- United States Patents*. Microfilm, 1790–1906. New Haven: Research Publications, Inc.
- Welsh, Peter C. “United States Patents 1790 to 1870: New Uses for Old Ideas.” *United States National Museum Bulletin*, 241, paper 48 (1965), pages 109–152.