surely have bitten him, but the chief Wolf said, "Hold! We will let him go this time, for he is young and not yet of good sense." So they let him go.

When night had come, they heard one who shouted for a feast, saying "Wo'-kā-hi-i-i We'-kā-hi-i-i Māh'kwē-tK-t'ūh-kò-th-wh-l Kē'-tūk-kā pūk-s-pīm." (Listen! Listen! Wolf you are to feast, enter with your friend). "We are asked," said the chief Wolf to his new friend, and they went to the lodge where the feast was given. It belonged to the chief of the Ravens. [Here the narrator is a little obscure, but from questioning him and others I learn that these ravens, wolves, foxes and others were supposed to take the shape of men at will.]

Within the fire burned brightly, and in the seats of honor sat the aged and wise of the Raven gens. Hanging behind the seats were the writing of many deeds, [meaning the painting on cowskin of the various battles and adventures in which the owner of the lodge had participated]. Then was food placed before them, penmican of berries, and the thick white fat. And when they had eaten, the pipe was smoked around the circle. Then spoke the Raven chief: "Now Wolf, I am going to give our new friend a present. What say you?"

"Tis as you say," replied the Wolf. "Our new friend will be glad."

Then the Raven chief took from a long partleche sack a wand beautifully dressed with many colored feathers, and on the far end of it was fastened the skin of a raven-head, wings, feet and all. "We," he said, "are the Raven-packers [those who carry the Raven.] Of all the above animals, of all the flyers, where one so smart? None! Sharp the Raven's eyes, strong his wings. Hungry he is never. A great hunter he, far, far off on the prairie he sees his food, and deep hidden in the pines it escapes not his eye. Now the song. [Here the Raven carriers' song is given.] Then he handed him the medicine [the decorated wand] and said, "Take it with you, and when you have returned to the lodge of your people you will say: "Now there is the Bull's, and he who is the Rav

"Hear the song. Hear and forget not. And the "ance, too, you shall remember, and you shall teach it to the people; and the E-kûn-ûh'-kăh-tse shall have the Kitfoxes too."

Again they heard the feast shout, and he who called was the Bear chief. Now when they had eaten, the chief said, "What say you, friend Wolf? Shall we give our new friend something?"

"As you say," replied the Wolf. "It is yours to give." Then said the chief Bear, "There are many animals; those who fly, and those who walk, and those who live under the water. They are of no force. The bear is the strongest one. Strong his teeth, long and sharp his claws, and his heart is brave. He fears nothing. That which he seizes he lets not go." Then he put on a necklace of bear claws, a belt of bear fur, and around his head a band of bear fur. "This," he said, "is the medicine. Now the song and the dance." When he had finished he gave the medicine to the new come one, and said, "Lose them not, nor forget the song and dance, for the Bears too shall be of the E-kim-th'-kāh-tse."

It was now far into the night, yet again, from the far end of the camp they heard the feast shout. In this lodge the men were painted with streaks of red, and their scalp locks were long and carefully braided. After the feast the chief said, "We are no animal gens. We are the Mût-si" [this word means as nearly as it can be expressed in English, rashly brave.] "We are death. If our enemies are like the grass [in number] we turn not away. Bows are good, spears better, but our weapon is the knife." Then the chief sung and danced and when he was through he gave the Wolf's friend the medicine. It was a long stone knife and scalps were tied on the handle. "For the E-kûn-ûh'-kăh-tse," he said, "is this."

Once more they were ealled to the feast and entered the lodge of the chief of Badgers. He, also, taught the Badger song and dance, and gave the medicine. It was a rattle, ornamented with beaver claws and bright feathers; and after they had smoked two pipes the Wolf and his new friend went

The main object of this society, so far as I can learn, was to protect the village or camps from enemies and from internal strifes and quarrels. Without permission, no lodge of people could leave the main camp. If they did members of this society quickly overtook them, and not only destroyed the lodge, but also all the personal property of the owners. A like punishment was inflicted on those who stole out to hunt by themselves, thereby scaring the game away. Certain days were set for hunting, so all would have an opportunity to secure food. Another and by far the most important duty of this society was to protect the camp from surprise by enemies. Whether traveling or not, scouts were always out in all directions watching for war parties, and so ceaseless was their vigilance that, so far as tradition goes, it is said that a Black-

foot camp was never surprised. Of the fighting qualities of these people more will be said in another chapter. At intervals the different bands of this society held a dance, when they appeared in full costume. At the medicine lodge they all took part.

J. W. SCHULTZ.

Hatural History.

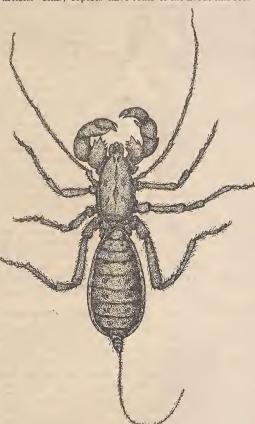
THE WHIP-TAILED SCORPION.

THE WHIP-TAILED SCORPION.

DOWN along the Rio Grande, there is a great deal to interest the lover of nature, the naturalist, even if the true sportsman does not find the country a paradise in his own eyes. Through the region where this grand old stream finds its way in Texas, occurs an interesting representative of the armadillos (Tatusia novem-cinctus), numerous forms of indigenous squirrels, and others of the Rodentia. rare types of bats, and several of the rarer Mustelidæ, all among the mammals; while as we know it is the land of the coppery-tailed trogon (T. ambiguus), the lovely Texan kingfisher, the curious parauque (N. albicollis), some of the most beautiful of the humming-birds, and the famous chachalaca (Ortalis vetula maccalli), among the birds. And when we come to the reptiles, fish, and insects, there is no end to the novelties and intensely interesting forms for study.

Among the last-named occurs the much-dreaded whiptailed scorpion, as the writer pleases to call it, the "vinegaroon," as most of the people thereabouts designate the insect, which is the Thelyphonus giganteus of science. A few days ago I received a very fine adult specimen of this creature, from Steward Henry Bunger of the Hospital Corps of the Army, who collected it at his station, Fort Seldon, New Mexico, and forwarded it to me.

Upon receiving it, I immediately made a life-size drawing of the insect, the figure which illustrates the present article. Many reports have come to me about this scor-



Upper view of a specimen of the Whip-tailed Scorpion (The "Vinegaroon") Thelyphonus giganteus; life size, from nature, by the author.

pion, and those who have seen it in its native haunts are

pion, and those who have seen it in its native haunts are curious to know how it is regarded and classified by naturalists. Personally, I have never known of a case that proved fatal from its bite, though Professor Packard, the eminent entomologist, tells us that its bite is poisonous, yet seldom causes the death of the person who sustains it.

Scorpions, it will be remembered, are somewhat closely allied to the true spiders (Arachnida) and are characterized in possessing a liver, which organ is absent in the winged insects. They are likewise without antenne, and have but one pair of jaws, and four pairs of legs. Usually the abdomen is of considerable size, while the head and thorax are more intimately united together than we find these two divisions in the bodies of most other insects to be.

head and thorax are more intimately united together than we find these two divisions in the bodies of most other insects to be.

We are all more or less familiar with the form of the true scorpion, with its pair of claws something like those of a crab, its segmented body, its elongated tail-like appendage which is also segmented, and is terminated by its sting, though the poison gland which supplies the latter is located at the base of the tail, the venom when called into use passing through a pair of ducts to it. Other investigators tell us, however, that the poison is contained in the bulbous enlargement at its extremity. At the present writing, it has never been my fortune to have carefully dissected one of these interesting insects, so I cannot personally decide this matter for you here.

Young scorpions are brought forth alive, and are known to travel about riding on the back of their mother. They possess, in common with their parents, the power of running backwards and sideways, as we have seen some species of crabs do.

Now our whip-tailed scorpion is structurally nearer the spiders than are the true scorpions, and the lash which gives it its name is but a feeble, segmented appendage to the abdomen, which does not harbor the sting at its extremity. It also has, as will be seen by the figure, four

pairs of legs, but the anterior pair are considerably modified, being far longer and more slender than the others.

They each consist of four principal joints, and then distally are terminated by another section which is made up of eight more diminutive joints. The other legs also possess four principal joints but terminate by sort of a hand which has three minor segments and is finished off by a delicate claw. Anteriorly, the clawed-arms remind us very much, being exceedingly hard and firm, of the limbs of certain of the smaller species of crabs. Head and thorax have really coalesced in this insect, and no doubt exists as to the segmentation of its large abdomen, there being nine divisions in it, while a small protruding part behind, also segmented, supports from its extremity the lash.

part behind, also segmented, supports from its extremity the lash.

This is one of the largest representatives of our insect fauna in the United States, and I trust the brief account of it which is presented here will prove of interest to those who desire to be informed in regard to the curious animals they may chance to met with in their rambles, and who can admire nature all the more for being in possession of such information.

R. W. Shuffeldt.

FORT WINGATE, N. M., June 26.

AMERICAN FORESTRY CONGRESS.

AMERICAN FORESTRY CONGRESS.

Twill be held in Springfield, Ill., Sept. 14 to 16, in response to an invitation tendered by the Legislature of that State. A similar control of the Congress was held in the far West, the Executive Committee have preferred to locate this year's meeting more contrally, and to accept the cordial Afull state meeting in more contrally, and to accept the cordial Afull state meeting more contrally, and to accept the cordial Afull state meeting in the state of Illinois. Papers upon topics of interest are solicited from members and release to amount of the courtesy of the State of Illinois. Papers upon topics of interest are solicited from members and release to amount of the transmit the titles of papers they wish to read.

Among others, the following topics are suggested as specially stitled for directs on the contract of the state of the state of Illinois. The state of the state

RECET ARRIVALS AT PHILADELPHIA ZOOLOGICAL GARDEN. Purchased—Three American badgers (Taxidea americana), one Malbrouck monkey (Cercopitheeus ephosurus), one green monkey (Cercopitheeus ephosurus), one green monkey (Cercopitheeus ephosurus), one mealy Amazon one purple gallinule (Porphyrio martinica), one mealy Amazon (Chrysotis farinosa), two blue-bonnet parrakeets (Psephotus hamatogaster), two white-eared conures (Conurus leucotis), two pine snakes (Pilypophis menanoleucus) and two honned lizards (Phrymosoma cornulum). Presented—Two jumping mice (Jaculus hudsonius), one raccoon (Procyon lotor), two flying squirrels (Pteromys volucella), one red fox (Vulpes fubrus), three screech owls (Scops asio), two pigeon hawks (Accipiter fuscus), two alligators (Alligator mississippiensis), six water snakes (Tropidonotus fasciatus) and three box tortoises (Cistudo clausa). Born—One fallow deer (Cerrus dama).