THE PORCUPINE*.

THE name given to this animal in most European languages leads to the notion that it is a hog covered with briftles, though it has no refemblance to the hog but in the grunt-

"The perceptule has two catting tenth in each law; the body is covered with long, Jand, and that quell (in divided). The certical perception has a long card on the sport of the head, refaining bacterial, and formed of fill brillers. The body is covered with, long quilly; todic on the hind part of the body being nine includes in length, we hay nat to end, and warfler with Black and write. Detween the quills are a few hairs. The head, being, and large are covered with change quillers, terms and the state of the desired of the state of the desired of the state of the desired of the state of the stat

In Greek and Latin, Hifters; in Arabic, Than-ban, according to Dr. Shaw; in German, Stackelfebavein; in Italian, Parce spings; in Spanish, Parce-office; in French, Parcepte.

Hyftrix; Plin. lib. viii. c. 35. Gefner. Quad. p. 563. Raii Synopf.

Porciepic; Mem. paur Seroir à l'Hift. des Animann, part. ii. p. 33. tab. 41. Hythix orientalis criflata; Seba, tom. i. p. 79. tab. 1. fig. 1. In Seba's figure, there are only three toes on the hind feet, inflead

of five.

Hyflrix capite criftato; Briffon. Quad. p. 85. Hyflrix criftata, palmis tetradactylis, plantis pentadactylis, capite criftato, cauda abbreviata; Lyan. Syft. Nat. p. 76. Haffelguid, Lins. p. 290.

ing noise it makes. It differs from the hog as much as any other quadruped, both in figure and internal structure. Instead of a long head furnished with long cars, armed with tufks, and terminated by a fnout; instead of cloven feet. covered with hoofs, like the hog; the porcupine has a fhort head, like the beaver, two large cutting teeth in each jaw, no tufks or canine teeth, the upper lip divided like that of the hare, round flat cars, and feet armed with claws, Inflead of a large flomach with an appendix flaped like a cowl, which, in the hog, feems to form the shade between the ruminating and other quadrupeds, the porcupine has only a fimple flomach and a large cocum. The parts of generation are not apparent, as in the boar; and the reflicles are hid in the groins. From thefe characters, joined to the fhort tail, the long whifken, and the divided lip, we may conclude that the porcupine makes a nearer approach to the hare or the beaver than to the hor. The hedge-hoz. which, like the porcupine, is armed with prickles, has a greater refemblance to the hog; for its muzzle is long, and terminates in a kind of fnout. But, all thefe refemblances being flight, and the differences conspicuous, the porcupine unquestionably constitutes a particular species, totally diffinct from that of the hedge-hog, the beaver, the hare, or any other animal to which fancy may compare it.

Travellers

Travellers and naturalifts have attributed to the porcupine the faculty of darting its quills to a diftance, and with fuch force as to inflict deep wounds: They have likewife faid, that the quills, when feparated from the body of the animal, poffess the extraordinary power of penetrating, by their own proper exertion, deeper into the flesh, as foon as their points have entered. This last fact is purely imaginary, and the first is equally false as the second. The error seems to have originated from this circumstance, that the porcupine, when irritated, erects and moves his quills; and, as fome of them are attached to the fkin by a delicate pedicle only, they eafily fall off. We have examined living porcupines, and, though violently agitated, we never faw them discharge their quills like darts. It is not a little furprifing, therefore, that the gravest authors, both ancient * and modern +, as well

^{*} Arift, Hift, Anim, lib, ix, cap, 39. Plin, Hift, Nat, lib, viii. cap. 53. Oppian. de Venatione.

⁺ Those quills, say the anatomists of the academy of sciences. which were flrongest and shortest, easily parted from the skin, being less firmly attached to it than the others. These are likewife the quills which the porcupines dart against the hunters, by shaking their fin as dogs do when they come out of the water. Claudian, in the fame manner, remarks, that the porcupine is himself the bow, the quiver, and the arrow, which he employs against the hunters ; Mem. pour Servir a l'Hift. des Animanx, for, iii, \$, 114. Nete, Fable is the province of the poet; and sherefore Claudian merits no reproach. But the anatomists of the academy should not have adopted this fable, which they feem to

as the most fensible travellers *, should join in giving their fuffrages to a falfehood. Some of them tell us, that they themselves have been wounded by these darts: Others affirm, that the quills are discharged with such violence as to pierce a plank at the distance of several paces +. The marvellous always augments and gathers force in proportion to the number of heads through which it passes. Truth, on the contrary, loses in performing the same route. Notwithflanding the absolute negative I have flamped on these two fictions, I am perfuaded that it will fill be repeated by a thousand future writers, that the porcupine darts his quills, and that these quills, when separated from the animal, penetrate deeper, by their own proper exertion, into the bodies which they have once entered 1.

The

have done for no other purpole than that of quoting Claudian; for, from their own account, it appears that the porcupine does not den his quills to a diffunce, but that they only full off when he fluke himself! Werminn, May! Werminn, p. 235, Wetten, p. 56. Adve. of 23nd. Digit. p. 473, and reveral other refeochable writers, have

adopted this error.

* Tavernier, tom. ii. p. 20. Kolbe, tom. iii. p. 46. Barke, Hift. Gen. des Voyages, tom. iv. p. 237.

+ When the porcupine is enraged, he darts his quilts, which are fometimes two fpans in length, with fach rapidity and force, again men and other animals, that they will pierce a plank of wood; Forage on Guintes, par Bojenous, p. 251.

I From this group of credulous travellers, we must except Dr. Shaw. 'Of the many porcupines which I have feen it Africa, I never knew any of them, though very much pro-

The porcupine, though originally a native of the warmest climates of Africa and India, can exift and multiply in colder countries, fuch as Perfia, Spain, and Italy. Agricola remarks, that the porcupine was not transported into Europe long before his time. It is found in Spain, and more commonly in Italy, particularly in the Apennine mountains in the environs of Rome. It was from this last place that M. Mauduit, who, flimulated by his love of natural hiftory, fent us the porcupine which M. Daubenton has deferibed. We have given the figure of this Italian porcupine, as well as that of India. The flight differences between them depend on the climate, or perhaps they are only individual varieties.

voked, that could dart their quills. Their usual method of defence is, to recline themselves on one side, and, upon the enemy's near approach, to rife up quickly, and gore him with the crefted Marie by no means afferts that the porcupine darts his quills: He only fays, that this animal, when he meets with ferpents, against whom he carries on a perpetual war, rolls himfelf up like a ball, concealing his head and feet, and then rolls upon, and kills them with his brittles, without running any risk of being wounded. He adds, what we believe to be true, that, in the flomach of the porcupine, different kinds of bezoar are formed: Some of these are only a mass of roots enveloped with a crust; others, which are fmaller, feem to be composed of pieces of ftraw and fand; and the imailest kind, which exceed not the fize of a nut, appear to be real petrifactions. We have no doubt as to the truth of these facts; for we found a bezoar of the first kind, or an ægagropilus, in the flomach of a porcupine which was fent to us from Italy.

Ariftotle.

Aristotle, Pliny, and all the naturalists, tell us that the porcupine, like the bear, conceals itself during the winter, and brings forth in thirty days. These facts we have not been able to afcertain; and it is fingular, that, in Italy, where the animal is common, and where, at all periode there have been learned philosophers and acute observers, no man has ever written its history, On this fubject, as well as on many others. Aldrovandus has only copied Gefner; and the Gen. tlemen of the Academy, who have described and diffected eight porcupines, fay little or nothing concerning their economy and manners. We only learn from the testimony of travellers, and of those who keep the porcupine in menageries, that, in a domeflic flate, it is neither wild nor ferocious, but only anxious for liberty; and that, by the affiftance of its fore teeth, which are ftrong and fharp, like those of the beaver, it cuts wood, and pierces the door of its cage *. We likewife know, that it is eafily fed upon crumbs of bread, cheefe, and fruits; that, in a flate of liberty, it lives upon roots and wild feeds; that, when it gets admiffion to a garden, it makes great havock, and devours all kinds of pot-herbs becomes fat about the end of fummer; and that its flesh, though fomewhat insipid, is not had to eat.

By examining the form, fubstance, and organization of the quills, we eafily perceive that they are tubes, and only want vanes to be real feathers. From this circumstance, the porcupine conflitutes the shade between quadrupeds and birds. The quills, particularly those near the tail, make a noise by striking each other when the animal walks. He can elevate or depress his quills, as the peacock raifes or lowers the feathers of his tail. Hence the muscular part of the fkin is capable of acting with force, and its ftructure is nearly the fame with that of fome birds. We have marked these relations, though not very apparent. It is always fixing one point in Nature, who often escapes our refearches, and feems, in her productions, to fport with those who wish to cultivate her acquaintance.

with avidity; that, like most other animals, it . There are porcupines in Guiney. They grow to the height of two or two and a half feet, and their teeth are to flarp and firong that no wood can reful them. I pet one into a barrel, imagining that it was fufficiently fecured : But, is one night, it gnawed through the wood, and made its escape; Verage