# ARANEA AVICULARIA.

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CHARACTER GENERICUS.

Pedes octo.
Oculi octo.
Os unguibus, feu retinaculis duobus.
Palpi duo articulati; mafculis genitalibus capitati.
Anus papillis textoriis.

Lin. Syft. Nat. p. 1030.

CHARACTER SPECIFICUS.

ARANEA thorace orbiculato convexo; centro transverse excavato.

Lin. Syft. Nat. p. 1034.

Mer. Sur. t. 18. Fabric. Spec. Inf. p. 545.

Araneam vulgarem et domefticam non poffunt non horrefcere et averfari incuriofi naturæ obfervatores. Quam longe tamen diftat hæc minuta et imbellis fpecies ab Araneæ Aviculariæ horrenda et ingenti mole! quam non folum alia Infecta fed ipfæ etiam aves reformidant, forcipes habentem unguibus accipitris magnitudine pares, oculofque quibus exfectis et more vitri optici paratis pro microfcopio uti poffunt Philofophi. Enormis Enormis hæc Aranea in variis Americæ regionibus fæpe confpecta, frequentior eft in America Meridionali. Inter arbores verfatur, aviculis infidians, quas prius forcipibus vulneratas fanguinem exfugendo deinde enecat. Forcipes iftæ virus inflant in vulnus, ut et aliis plerifque Araneis commune eft. Foramen juxta apices forcipum, per quod exit venenum, et de quo, fitne foramen necne, multum diuque inter phyficos dubitatum eft, in hac fpecie ab ipfo oculo, fine ope microfcopii plane poteft percipi.

Mirari fane jure poffunt illi, qui in microfcopicis investigationibus versantur, illique præcipue qui microscopio Liberkuniano usi sunt, ullum unquam exstitiffe dubium de hoc foramine in Aranearum forcipibus: ineffe enim illud Araneæ ipfi vulgari et domefticæ plane demonstrat prima vel fecunda lens istius microfcopii. Notandum tamen est commune microscopium ad diftinctum rei tam minutæ confpectum non fatis accommodari. Swammerdamii et Roëfelii acumen effugit hoc foramen, et probe notum est Meadum celeberrimum in tractatu suo de venenis Leewenhoekium erraffe credere, cum venenum Araneæ per foramen forcipum exprimi afferit : affirmat enim Meadus fe variarum specierum forcipes, et speciatim prægrandis hujus speciei sedulo examinasse, nec tamen foramen potuisse detegere. Cum tamen multos post annos rem illi plane oftendit Bakerus, priorem opinionem fummo cum candore revocavit vir doctiffimus, alteramque substituit; certas tantum species venenosas esse, eas nempe quæ tubulatis forcipibus instructæ funt; ut in ferpentibus evenit; quorum certæ tantum species veneno

veneno imbutæ funt ; illæ nempe quæ dentes tubulatos gerunt, e.g. Crotalus, Vipera, &c.

Ab oculis aliorum Infectorum differunt longe Aranearum oculi, et pro diverfitate fpecierum diverfum habent numerum et fitum.

Species de qua jam agitur octo habet oculos, in formam pene oblongo-quadratam difpofitos. Horum duo intermedii reliquis grandiores funt, et plane rotundi; cæteri in formam ovi effinguntur.

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### THE

## BIRD-CATCHING SPIDER.

GENERIC CHARACTER.

Eight Legs.
Eight Eyes.
Mouth furnished with 2 hooks or holders.
Two jointed Palpi or Feelers, the tips of which (in the males) distinguish the fex.
The Abdomen terminated by papillæ, or teats, through which the Infect draws its thread.

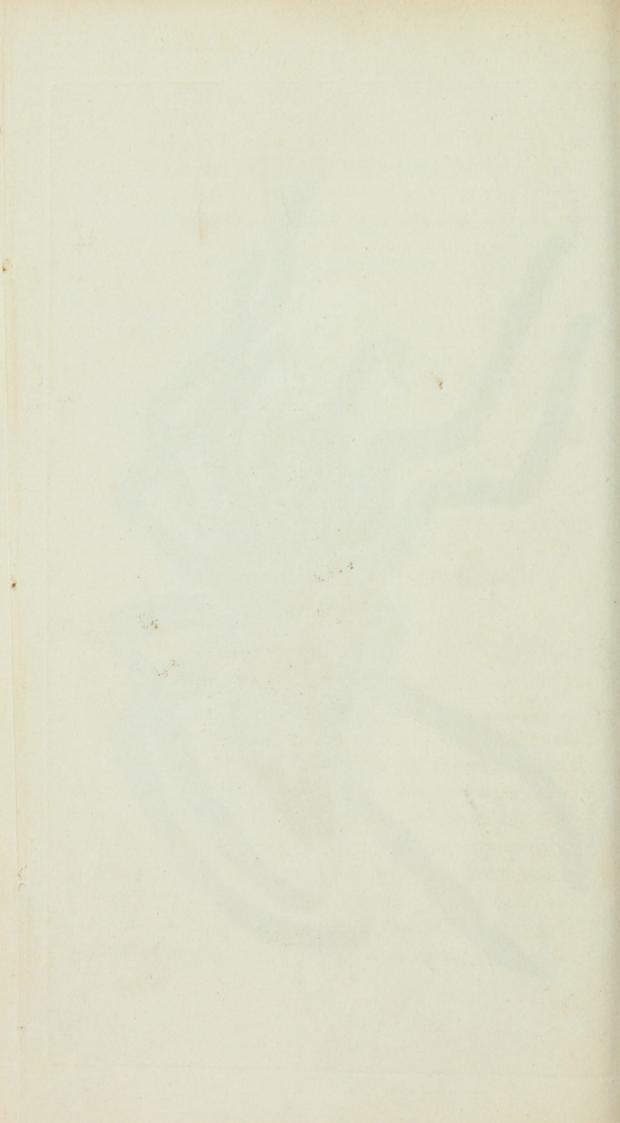
### SPECIFIC CHARACTER.

SPIDER with orbicular convex thorax with a transverse central excavation.

Lin. Syft. Nat. p. 1034. Mer. Surin. tab. 18.

The common Spiders of Europe are frequently beheld with horror and averfion by those who have not accustomed themselves to an attentive survey of the works of nature; but what are these when compared with the terrific magnitude of the gigantic species here exhibited! A species which is formidable not only to other infects, but even to birds themselves; whose fangs are equal in fize to the talons of a hawk, and whose





whole eyes are capable of being fet in the manner of glaffes and uled as microleopes. This enormous Spider is not uncommon in many parts of America, but it is principally found in South-America. It refides amongft trees, and frequently feizes on fmall birds, which it deftroys by fucking their blood, after having firft wounded them by its fangs, which inftil a poilonous fluid into the wound, in the manner of other Spiders. The flit or orifice near the tip of the fangs of Spiders, through which the poifonous fluid is evacuated, and the exiftence of which has afforded fo much matter of doubt amongft Naturalifts, is in this fpecies fo vifible that it may be diftinctly perceived without a glafs.

To those who are accustomed to microscopical inveftigations, and make use of the advantageous ftructure of the opake microfcope, it may feem furprifing that any doubt could ever have been entertained of the existence of this foramen in the fangs of Spiders, fince even in the common House-Spider it is perfectly vifible by the affiftance of the first or fecond magnifier of Liberkun's microfcope; but it fhould be confidered that microfcopes of the ufual ftructure are not calculated for fhewing to advantage fo fmall an object, and which requires fo favourable a light. Even Swammerdam and Roëfel could not difcover it; and it is notorious that Mead in his Account of Poifons, imagines Leewenhoek to have been miftaken in fuppofing that the Spider evacuated its venom through a hole in its fangs; and declares that he himfelf had examined the fangs of feveral Spiders, and of this large one in particular,

particular, without having been able to difcover the foramen. The late Mr. Baker however, feveral years after, convinced him of its exiftence. He then retracted his former fentiment, and with great candour and judgment gave it as his opinion, that, as amongft ferpents, only fome particular fpecies are poifonous, and have teeth that are perforated for the emiffion of their poifon, viz. the Rattle-Snake, the Viper, and others, fo amongft Spiders fome kinds only may be poifonous, viz. fuch as are provided with perforated fangs.

The Eyes of Spiders differ very much from those of most other infects; and are different both in number and disposition in the several species. The present species has eight eyes, which are disposed formewhat in the form of an oblong square. Of these the two middle ones are larger than the rest, and perfectly round; the others are of an oval state.



Shaw, George. 1789. "The Bird-Catching Spider, Aranea avicularia [Pl. 12]." *The Naturalist's Miscellany* 1(IV), <u>https://doi.org/10.5962/p.310665</u>.

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