## FAOTS USEFUL AND CURIOUS.

The greyhound runs by eyesight only, and thil we observe as a fact. The carrier pigeon flies his 250 milea homeward by eyesightnamely, from point to point of objeots which he has marked; but this is only our conjecture. The tieroe dragon-ily, with 12,000 lensea in his eye, darta from angle to angle with the rapidity of a flashing sword, and as rapidly darts back, not turning in the air, but with a clash reveraing the action of his four winge, and instantaneonaly calculating the distance of the objecta, or he would daah himself to pieces. But in what conformation of the eye does this consiat: No one can anawer.
A cloud of 10,000 guats dance up and down in the aun, the minutest interval between them, yet no one knocks another headlong apon the grass, or breaks a leg or wing, long and delicate as these are. Suddenly, amidst your admiration of this matchless dance, a peculiarly high ahouldered, vicious gnat, with long, pendant nose, darts out of the rising and falling cloud, and, settling on your cheek, inserts a poisonous sting. What possessed the little wretch to do thiaf Did he umell your blood in the mazy dance? No one knows.
A carriage gomes suddenly upon a flock of geese, on a narrow road, and drives atraight through the middle of them. A goone was never yet fairly run over, nor a duck. They are under the very wheel and hoofs, and yet somehow they contrive to flap ahd waddle safely off. Habitually stupid, heavy and indolent, they are nevertheless equal to any emergency.

Why doen the lonely woodpecker, when he descends his tree and goes to drink, stop sevoral times on his way, listen and look round, before he takes his dranght? No one knows. How is it that the species of ant, which is taken in battle by other ants to be made slaves, should be the black, or negro ant! No one knows.
The power of judging of actual danger, and the free and easy boldness which results from it, are by no means uncommon. Many birds seem to have a most correct notion of a gun's range, and while sorupulounly careful to keep beyond it, confine their care to this caution, though the mont obvioun resource would be to fly right away out of aight and hearing, which they do not choose to do. And they sometimes appear to make even an ontentatious use their power, fairly putting their wit and clevertheir power, fairly putting their wit and clever-
neas in antagoniom to that of man, for the benefit of their fellows. We lately read an acenunt, by a naturalist in Brazil, of an expedition he made to one of the inlands of the Amazon to shoot spoon-bills, ibises and other of the mag. nificent grallatorial birds, which were mont abundant there. Hir design was completely baffled, howeyer, by a wretched little sandpiper that preoeded him, continually uttering his telltale cry, which at once aroused all the birds within hearing. Thronghout the day did this individual Bird oontinue his self-imposed duty of nentinel to othere, effectually preventing the approach of the fowler to the game, and yet managing to keep out of the range of his gun.

The Bear Vericle, - An aneodote in told of a physician who was called to a foreign family to prescribe for a case of incipient consumption. He gave them a prescription for pills, and wrote the direotion: "One pill to be taken three times a day in any convenient vehicle." The family looked in the diotionary to get at the meaning of the pretaription. They got on well until they got to the word vehicle. They found "cart, wagon, carriage, buggy, wheelbarrow." After grave consideration they came to the concluaion that the doctor meant the patient should ride out, and while in the vehicle he should take the pill. He followed the advice to the letter, and in a few woeks the fresh air and exercise secured the advantage which otherwise might not have toms.

## NEW INVENTIONS.

We publish descriptions of the following new inventions, obtainod through Dewey \& Co., Mining and Scientific Press Patent Agency, San Francisco:
Horse Hitoutso Device-Renhen Seiders, 737 Howard St, S, F. This invention relates to an improved device for necuring horsea at points where it is neoessary to leave them; and it consinta in the employment of a rod, one end of which may be dropped upon the ground at will. The other end is hinged to a slide which moves in a hollow barrel or guide, nald guide being secured beneath the vehicle in a horizontal position. A rod is socured to the alide and extends toward the front, having a loop or ring to which a line may be attached and led to the horse's bit. When a stop is made the hinged rod may be let down no that its end rents upon the ground, and any forward movement of the horse will draw the sliding rod back into the tube or guide, thus pulling upon the rein or line, and the horne's mouth. A spring in the rear of the tube forces the rod forward when the horse backs or the strain is relieved. This device has been applied to a number of vehiclen, and the inventor informs un that the renalts are very satinfactory.
Ratlroad Ratl Jonst,-silas Hartia, 7 Liberty St., S. F. The ordinary form of rail joint ia made by means of finh-plates on each side of the rail, crossing the joint, slots being formed through the fish-plates and rail, no that bolts may pana through them, these bolts being secured in place by nuts. The diffioulty with thin conneetion is that the nuta are continually being shaken loone until the bolts fall out and the plates drop off, leaving the meating ends of the rails without proper support. This diftieulty is obviated by discarding the sorew bolta
entirely, and using bolts which are held in place entirely, and using bolts which are held in place
by an ecoentric, which, while it can be loosened when desired, will not jar loose by the pasaage of when desired, will not jar loose oy the pasis device consints in binding the fish-
trains. This pla'e against the aides of the rail by means of an eccentric horizontal bolt or fastening connected with asid fish-plate through peculiarly. formed bolts or plates. The eccentria joins the parts togother immovably, and diapensee with all nuts or screw.bolts.
Plowshahe Fastener,-Jacob P. Patery, Dunnigan, Yolo Cos, Cal. Patented May 25, 1880. No. 227,991. The mold-board and landaide are fantened to the share by levers provided with cams or catches. The mold-board is necured to the curved beam and the land-side by means of braces, the lange on the upper edge of the land-side. On the end of the brace is a fulerum of a componad lever, the smaller arm of said lever being piroted on a awinging arm, On the end of this amaller arm is found a hook which grasps a stud on the under sile of the whare. A slot is foand in the end of the brace and suother in the end of the land-side, into which fit the studs found on the share, thua steadying the share.
Animal. Trar.-W. J. Webber, Hollister San Benito Co, Cal. Patented May 25, 1880. No. 227,935. This trap is intended for the capture of animals, birds, ete., and it consiats in the employment of one or more needles or harpened spears, moving in gudes and provided with an elastic spring by which the needio in forcod
setion of a trigger. This triguer is operated by the attempt of the animal to pase its free and, and this end is concealed by a ntalk, weed, or any natural object. In comhination with or any devices a guard or protector is employed these devises a guard or prokecher set or carried


