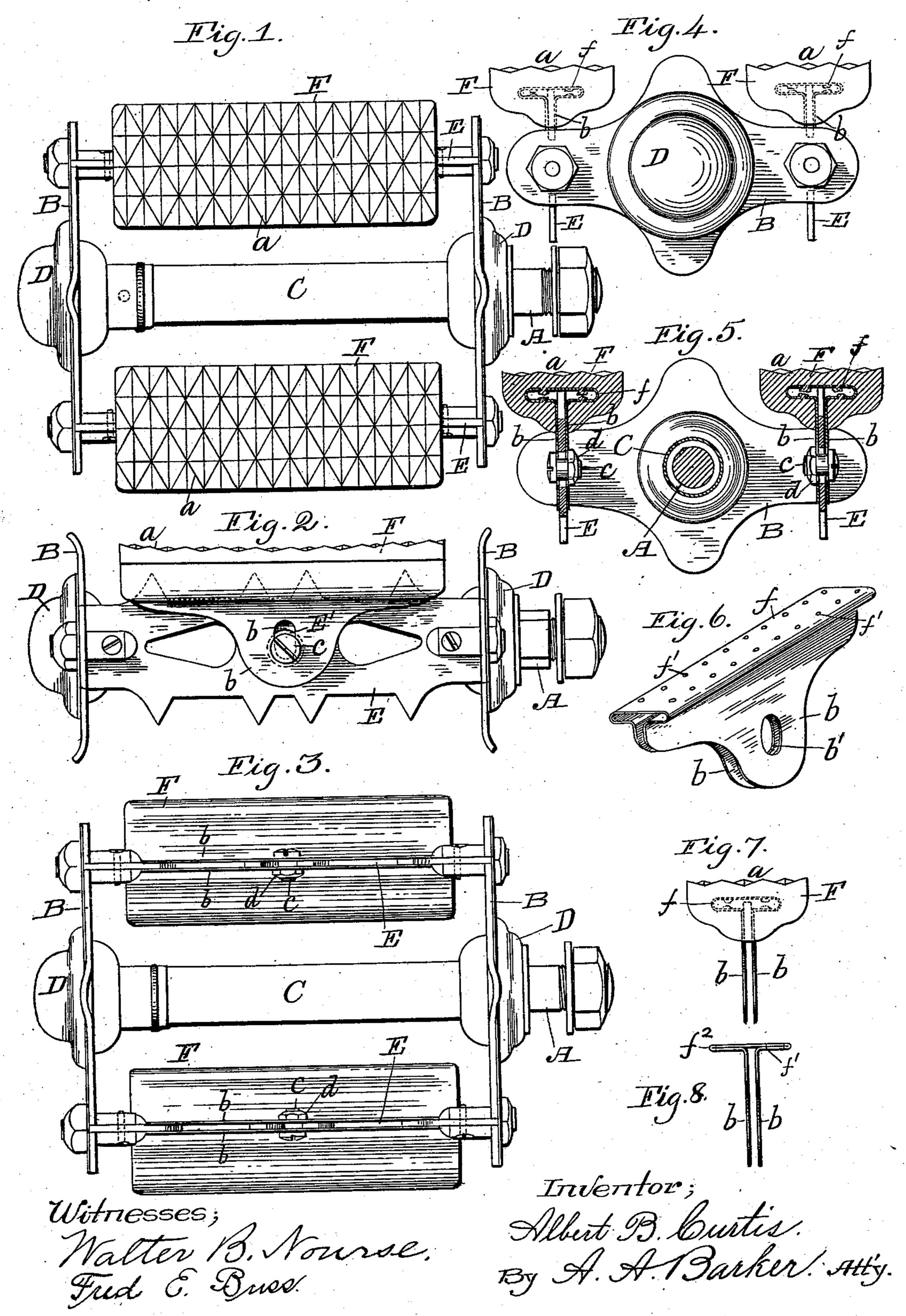
## A. B. CURTIS. VELOCIPEDE TREADLE.

No. 533,867.

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## United States Patent Office.

ALBERT B. CURTIS, OF WORCESTER, MASSACHUSETTS.

## VELOCIPEDE-TREADLE.

SPECIFICATION forming part of Letters Patent No. 533,867, dated February 12, 1895.

Application filed December 22, 1893. Serial No. 494,427. (No model.)

To all whom it may concern:

Be it known that I, Albert B. Curtis, of the city and county of Worcester and State of Massachusetts, have invented certain new 5 and useful Improvements in Velocipede-Pedals; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this speci-

ro fication, in which—

Figure 1 represents a plan of my improved pedal. Fig. 2 is a side view; Fig. 3, a bottom view, and Fig. 4 an end view thereof. Fig. 5 is a central, transverse section through the 15 pedal. Fig. 6 is a perspective view of the metal holding-plate of one of the detachable foot-rests of the pedal, hereinafter described. Fig. 7 is an end view of one of said detachable foot-rests, with its holding-plate secured 20 therein, and Fig. 8 shows a slight modification in the construction of said metal holding plate.

My invention relates to means for converting what are commonly termed "rat trap" | vided with a series of holes f' for the material 75 25 pedals, into pedals having removable elastic foot-rests; and consists of certain improvements in the construction of and mode of applying said removable foot-rests, as will be

hereinafter more fully set forth.

30 In order that others may better understand the nature and purpose of my said invention, I will now proceed to describe it more in detail.

With the exception of the aforesaid detach-35 able foot-rests, the rat-trap pedal shown, is of well known construction, and, therefore, requires only a general description in connection with said improvement. It is provided with the usual, central spindle A, end-plates 40 B B, sleeve C, arranged over said spindle between said plates, dust-caps D D, and rattrap plates E E, extending between the outer ends of the end plates and serving as footrests for the pedal when used as a rat-trap 45 pedal without my improved, cushioned, detachable foot-rests F.F. Said foot-rests F.F. may be made of any suitable shape or material. I prefer, however, to make them of rubber, and with their top surfaces a flat and so roughened, as is shown in the drawings, so that the feet of the velocipede rider may more the purpose set forth.

perfectly fit and adhere thereto. Each footrest is provided with two inwardly projecting, parallel plates b b, arranged just far enough apart to receive and hold the outer edges of 55 the rat-trap plates between them. They are fastened in position after adjustment by means of short bolts c, and nuts d,—said bolts being passed transversely through suitable openings b' E' in the plates b b and E, respect- 60 ively, as is shown in the drawings. Said parallel plates b b project at right angles from a horizontal, tubular body f, and both the plates and body are preferably made integral, from a single piece of sheet metal, of the proper 65 size and shape to produce said parts when bent into substantially the shapes shown in Fig. 7. The tubular part f, and a portion of the base or inner ends of the parallel plates b b are embedded in the elastic foot-rests F F 70 in casting the latter, and are thereby securely fastened therein, as is fully shown in the drawings. To facilitate fastening said tubular bodies in the foot-rests, they may be profrom which said foot-rests are cast to enter, and thereby more securely hold the metal part in position.

If desired, the body f may be made flattened in the form of a double plate  $f^2$ , as is 80

shown in Fig. 8.

In applying the detachable foot-rests to convert an ordinary rat-trap pedal into a cushioned pedal, the rider has but simply to slip the holding-plates b b over the outer edges of 85 the rat-trap plates E E, then pass the transverse bolts c through the openings b' E' in said plates, and turn the nuts d thereon; and the removal of said foot-rests, it is obvious, may be performed with equal facility by re- 90 versing said operation.

Having now described my invention, what I claim as new, and desire to secure by Letters

Patent, is—

1. In rat-trap, and similar pedals for veloci- 95 pedes, detachable foot-rests, adapted to be applied to the rat-trap plates, and having parallel holding plates projecting therefrom, adapted to be fitted to said rat-trap plates, and means for fastening said holding plates 100 to the rat-trap plates, substantially as and for

2. In rat-trap and similar pedals, the detachable foot-rests F F adapted to be applied to the rat-trap plates, in combination with an irregular shaped, metal holding plate fastened thereto, by embedding a portion thereof in said foot-rest, and consisting of the central body f and parallel plates b b projecting at right angles therefrom, and means for fastening said parallel plates to the rat-trap plates, substantially as and for the purpose set forth.

3. A detachable foot rest for rat-trap pedals having a clamp shaped to receive a rat-trap plate, and faced with rubber, and means for

detachably securing said clamp to said plate, substantially as described.

4. A detachable foot-rest for rat-trap pedals having a perforated metallic clamp adapted to receive a rat-trap plate, a rubber facing cast upon and extending through the perforations of the metallic clamp and means for de-20 tachably securing said clamp to said plate, substantially as described.

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Witnesses:

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