

No. 639,132.

Patented Dec. 12, 1899.

T. G. AVERY.
PEDAL ATTACHMENT.

(Application filed Nov. 22, 1898.)

(No Model.)

Fig. 1.

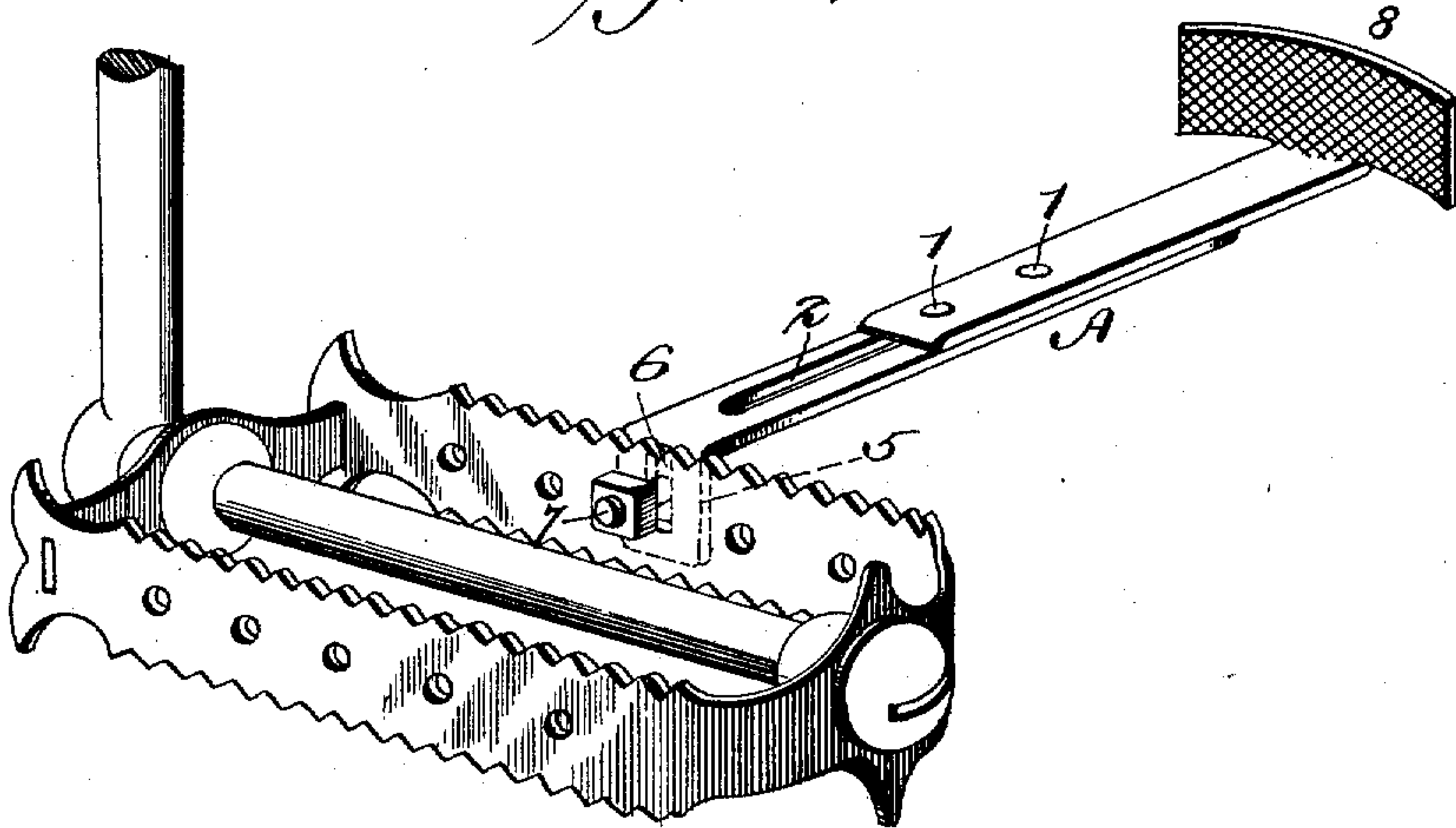


Fig. 2.

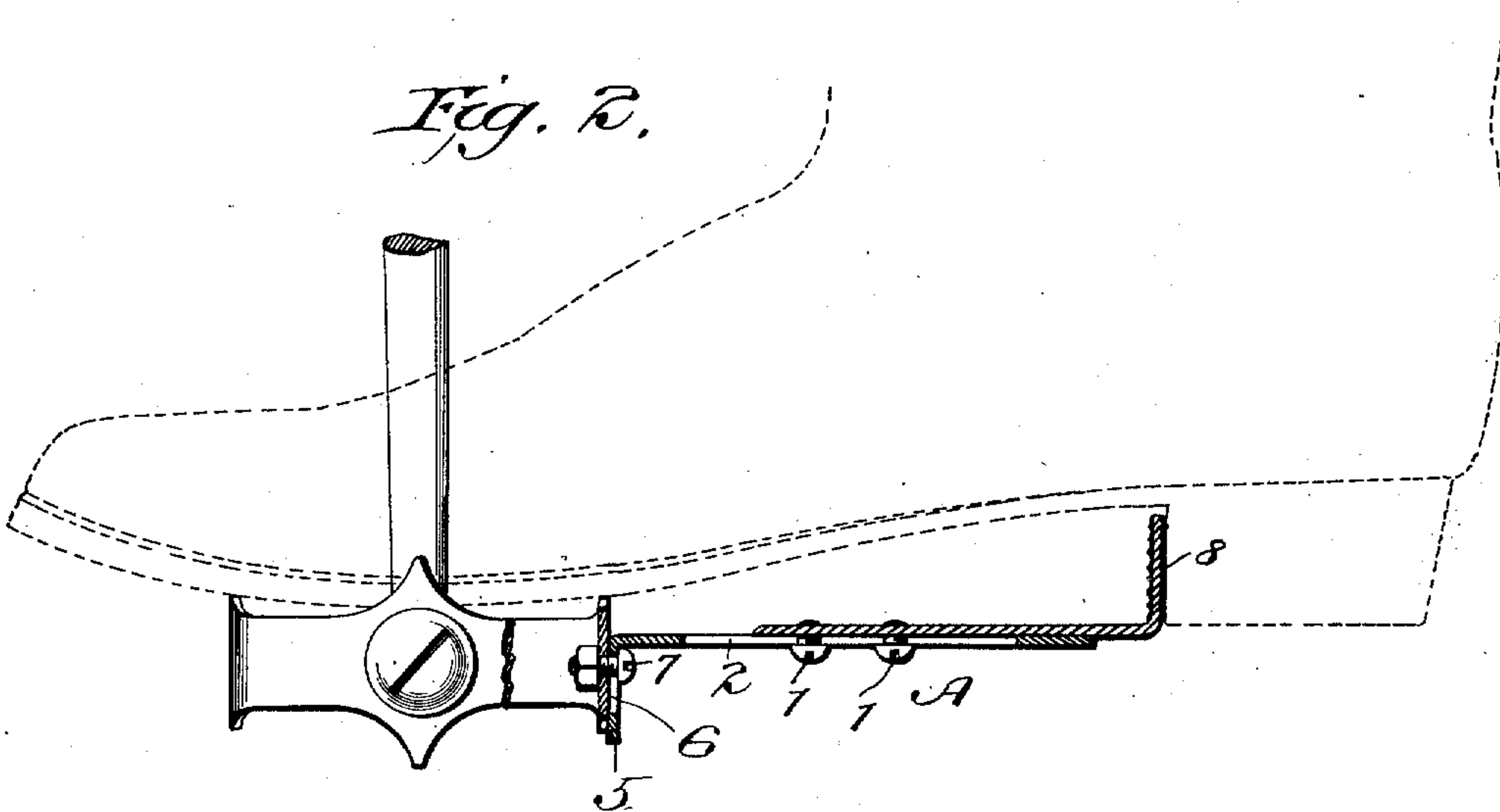
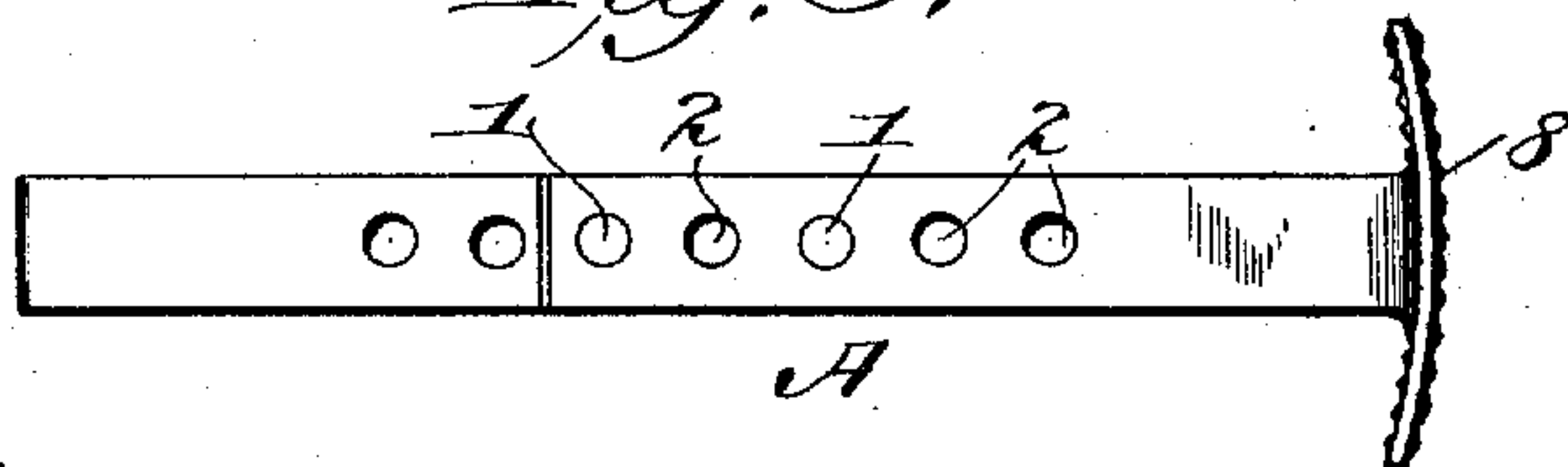


Fig. 3.



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TRACY G. AVERY, OF BINGHAMTON, NEW YORK, ASSIGNOR OF ONE-HALF
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PEDAL ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 639,132, dated December 12, 1899.

Application filed November 22, 1898. Serial No. 697,125. (No model.)

To all whom it may concern:

Be it known that I, TRACY G. AVERY, a citizen of the United States, residing at Binghamton, in the county of Broome and State of New York, have invented certain new and useful Improvements in Pedal Attachments, of which the following is a specification.

My invention relates to an improvement in pedal attachments for cycles, the object being to provide a light, simple, neat-appearing, and inexpensive device which will prevent the rider's foot from slipping and at the same time leaving the foot perfectly free, so that it is bound in no way, as it would be by the use of a toe-clip.

A further object is to provide a device which will be effectual in preventing the foot from slipping and at the same time will not injure the shoe in any wise, as does the toe-clip, and further, to provide a device of the character named which will not easily catch in the skirts of lady riders.

A still further object is to provide a pedal attachment which can be lengthened or shortened to accommodate the length of the rider's foot and one which can be vertically adjusted with respect to the pedal.

With these objects in view my invention consists of a pedal attachment having an extensible shank and capable of being adjusted to different positions on the pedal.

It also consists in a shank having an extended heel-bearing constructed and adapted to receive the forward pressure of the rider's heel.

It still further consists in certain novel features of construction and combinations of parts, which will be more fully described hereinafter and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a view in perspective of my improved pedal attachment in position on the pedal. Fig. 2 is a longitudinal sectional view, and Fig. 3 is a view of a modification.

A represents the shank of the device. It is composed of two narrow strips of metal, one of which is superimposed upon the other. One strip, preferably the upper one, has one or more (usually two) set-screws 11 therein, and the other strip is either provided with an

elongated slot 2, as shown in Fig. 2, or with a series of holes, as shown in Fig. 3, through which the screws extend, the object being to provide for lengthening or shortening the pedal attachment, as desired, to accommodate its length to the length of the rider's foot. This extensible feature might be otherwise accomplished by making one part of the shank slide into the other, for instance, or in other ways. The lower section of the shank is bent downwardly at the forward end, as at 5, at right angles or approximately right angles to the remaining portions of the shank, and in this end 5 a vertically-disposed elongated slot 6 is formed. A screw 7, passed through this slot, is provided for securing the pedal attachment to the pedal. The slot is elongated to admit of slight vertical adjustment of the attachment relative to the pedal. An ordinary nut on the screw secures the attachment readily in position. At the opposite or outer end of the shank the metal forming it is widened out and bent upwardly to form a heel-bearing 8, against which the inner edge of the heel is placed in propelling the cycle. This heel-plate is made sufficiently long and wide and is so curved that it fits a comparatively large portion of the surface of the inner edge of the heel and also is easily caught by the heel, and the heel is not liable to slip from it. The outer face of the heel-plate is roughened in any convenient way—as, for instance, it may be milled, corrugated, or provided with spurs, or it may be faced with leather or rubber, as the case may be.

The entire device can be made of sheet metal, iron, or steel and enameled, nickered, or otherwise finished to suit the taste.

The device is a simple and inconspicuous one and most effectual in the performance of its functions. It can be sold at a trifling cost, does not add more than an ounce or so to the weight of the machine, and it is most serviceable, particularly to a beginner, as it greatly assists in keeping the foot on the pedal. It also has the further advantages hereinbefore mentioned of not in any wise marring the shoe. It has not the danger of catching the foot or clothing, and it can be quickly and easily adjusted so as to approximately fit the hollow of the foot, where it is out of view.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

5 As an article of manufacture, a pedal attachment for cycles struck up from two strips of metal, the shanks of these pieces of metal superimposed upon each other and adjustably connected together whereby the attachment is rendered extensible to the length of the
10 rider's foot, the outer end of one strip bent at right angles and extending laterally in a general curve to fit the inner curvature of the rider's shoe-heel and roughened to in-

crease the frictional contact thereon, and the outer end of the other strip also bent at an an- 15
gle to the strip and constructed to be adjustable vertically with respect to the pedal whereby the pedal and attachment are disposed in such a manner with respect to each other that they conform to the curvature of 20
the soles of the rider's shoe.

TRACY G. AVERY.

In presence of—

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