No. 665,746. Patented Jan. 8, 1901.

S. J. MADSON.

TOE CLIP TRIP.

(Application filed Aug. 30, 1900.)

(No Model.)

FIG. 1.

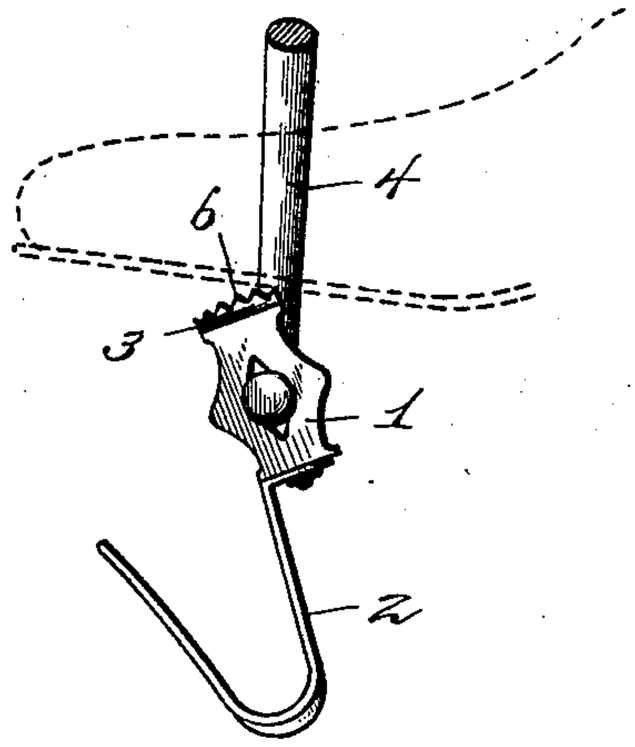


FIG. 2.

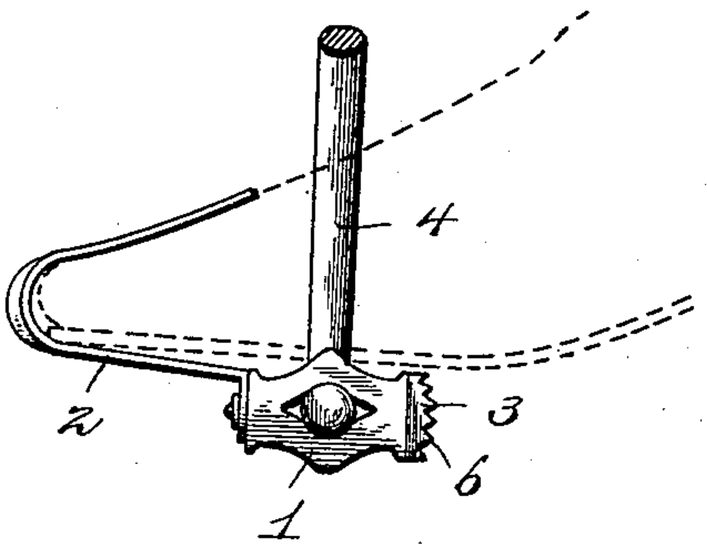


FIG. 3.

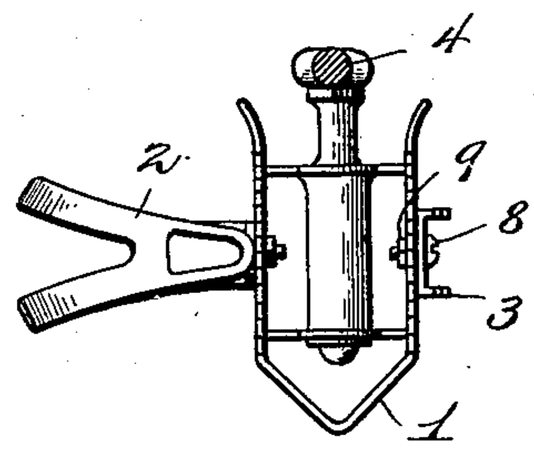


FIG. 4.

FIG. 5.

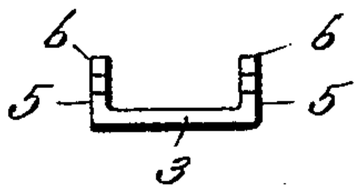
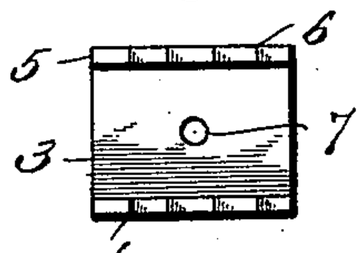


FIG. 6.



WITNESSES

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TOE-CLIP TRIP.

SPECIFICATION forming part of Letters Patent No. 665,746, dated January 8, 1901.

Application filed August 30, 1900. Serial No. 28,516. (No model.)

To all whom it may concern:

Be it known that I, SEMON J. MADSON, a citizen of the United States of America, residing at Newberg, in the county of Yamhill and State of Oregon, have invented a certain new and useful Toe-Clip Trip, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to toe-clip trips, and has for its object to provide a simple device of the character referred to in the form of an attachment which may be readily and quickly applied to the ordinary bicycle-pedal for the purpose of enabling the rider quickly to partially turn the pedal from its normal position, in which the clip hangs below the pedal, to a position in which the toe may be readily slid under the clip carried by the pedal.

The detailed objects and advantages of the invention will appear in the course of the ensuing description.

The invention consists in a toe-clip trip embodying certain novel features and details of construction, as hereinafter fully described, illustrated in the drawings, and incorporated in the claim.

In the accompanying drawings, Figure 1 is an end view of a pedal provided with a toe-clip and having the improved trip applied thereto, also showing in dotted lines a portion of the rider's foot, the pedal and clip being in its normal or hanging position. Fig. 2 is a similar view showing the pedal and clip rocked upward to riding position. Fig. 3 is a plan view of the pedal, with the trip and clip attached, showing the manner of connecting the trip with the pedal. Fig. 4 is an enlarged side view of the trip. Fig. 5 is an end view of the same. Fig. 6 is a plan view of the same.

Similar numerals of reference designate corresponding parts in all the figures of the drawings.

A practicable embodiment of the invention is represented in the accompanying drawings, in which 1 designates an ordinary bicycle-pedal, 2 a toe-clip of any usual pattern applied and secured thereto in any preferred manner, and 4 the crank to which the pedal is attached.

3 designates the trip, which consists of a plate or section of sheet metal having its opposite ends bent at right angles to the main body of the plate to form parallel flanges 5, projecting from the same side of the plate. The outer edges of these flanges 5 are described on the arcs of circles, or, in other words, are rounded or curved and are notched to form teeth 6. In this manner toothed or serrated rocker edges are provided and the outer toothed edges of the flanges 5 are preferably described in the arc of a circle of which the axis of the pedal is the center. The trip is also provided with a centrally-located hole 7, adapted to receive a headed bolt 8, which passes also through an opening in one of the bars or plates of the pedal, as shown in Fig. 3, where it is secured by means of a nut 9, although other fastening means may be employed without departing from the principle of this invention. The toe-clip trip is preferably made of steel, although any other metal or suitable material may be employed in the construction thereof.

The teeth 6 are designed to catch into and obtain a firm hold upon the sole of the rider's shoe, so as to prevent the sole from slipping on the trip in turning the toe-clip upward prior to inserting the toe beneath the clip. The pedal and clip normally assume the position shown in Fig. 1. The rider applies his foot to the pedal, as shown by the dotted lines in the same figure, and then exerts a slight backward pressure, which causes the sole of the shoe to engage the teeth of the trip, resulting in rocking the pedal upon the pedal-axle and moving the toe-clip 2 upward to the position shown in Fig. 2, whereupon the toe may be readily slid into engagement with the toe-clip.

The toe-clip trip hereinabove described is neat, compact, and durable, is of extremely simple construction, its weight is trifling, and it affords no objectionable projection to interfere with the rider or catch and tear his clothing.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

As a new article of manufacture, a one-piece toe-clip trip for pedals, consisting of a plate having opposite portions bent at right angles to the main body of the plate and on the same side thereof to form a rocker-sur-

face consisting of twin parallel segmental flanges spaced apart and having their edges serrated and described on the arc of a circle of which the axis of the pedal is the center, the body portion of the plate between the flanges being provided with a hole for the fastening device, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

SEMON J. MADSON.

Witnesses:
J. C. COLCORD,
THOS. B. DUNCAN.