

No. 630,743.

Patented Aug. 8, 1899.

T. J. RUSH.

REMOVABLE TOE CLIP FOR BICYCLE PEDALS.

(Application filed Feb. 10, 1899.)

(No Model.)

Fig. 1.

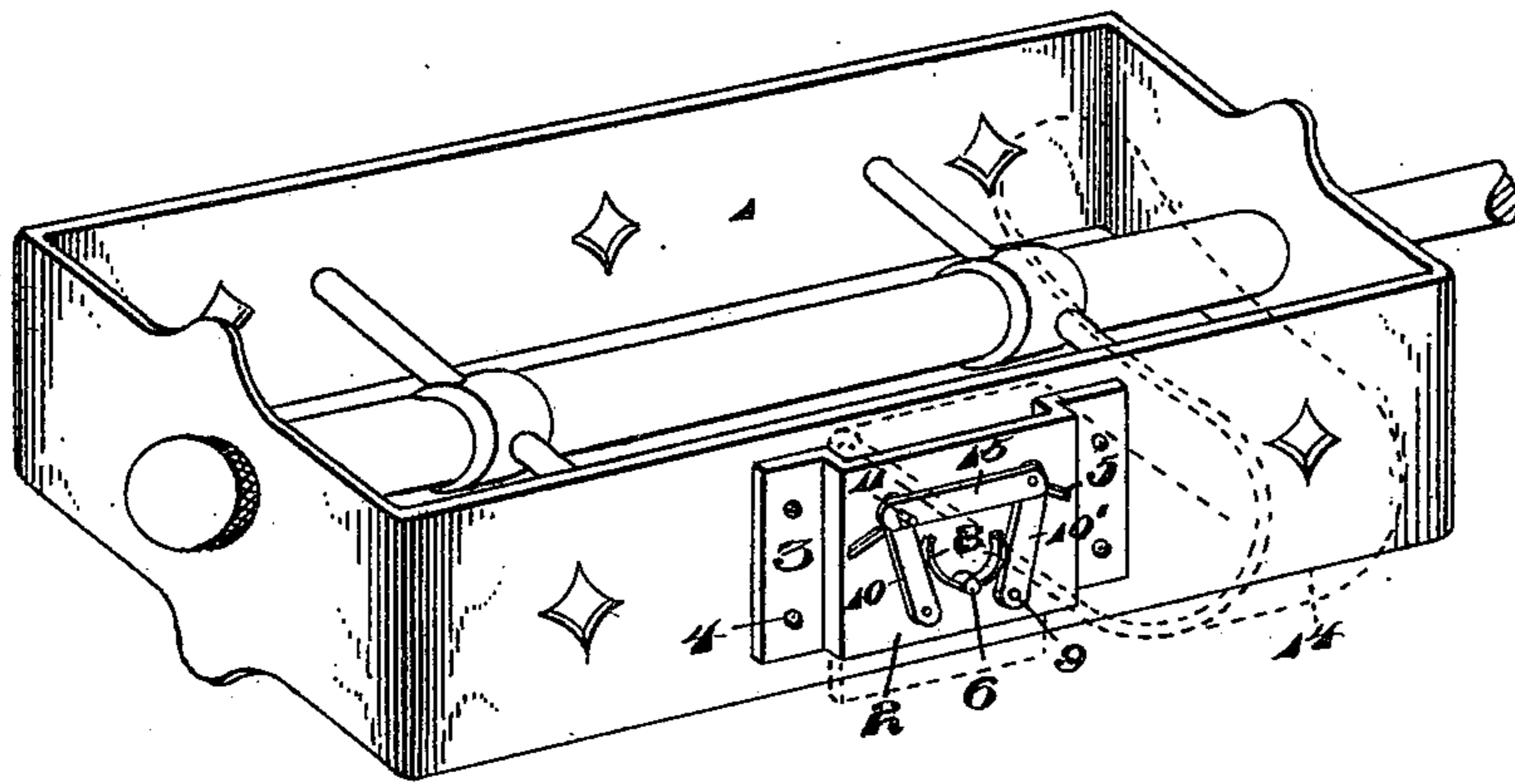


Fig. 2.

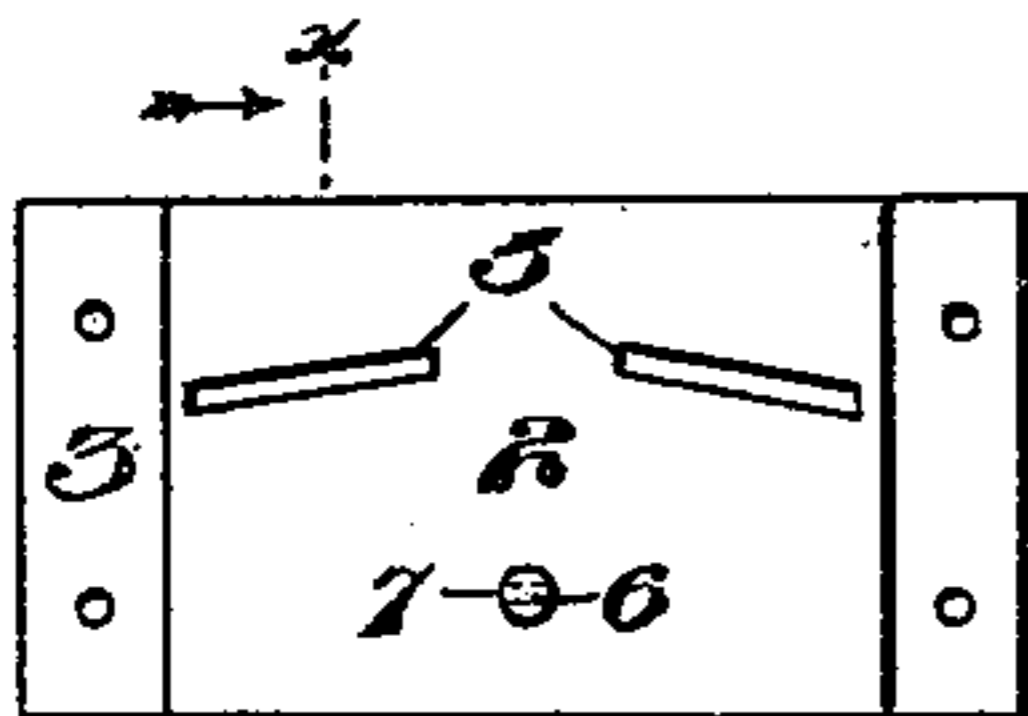


Fig. 3.

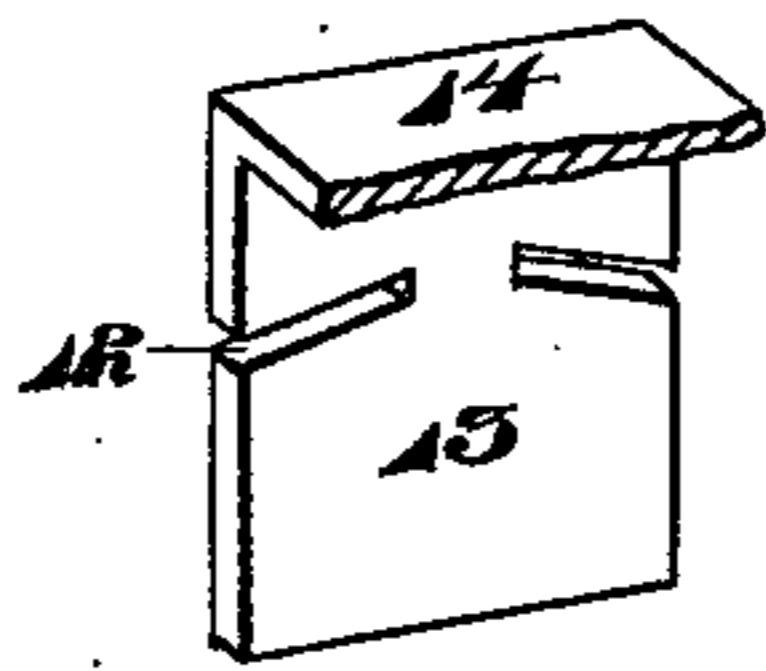


Fig. 4.



Fig. 5.

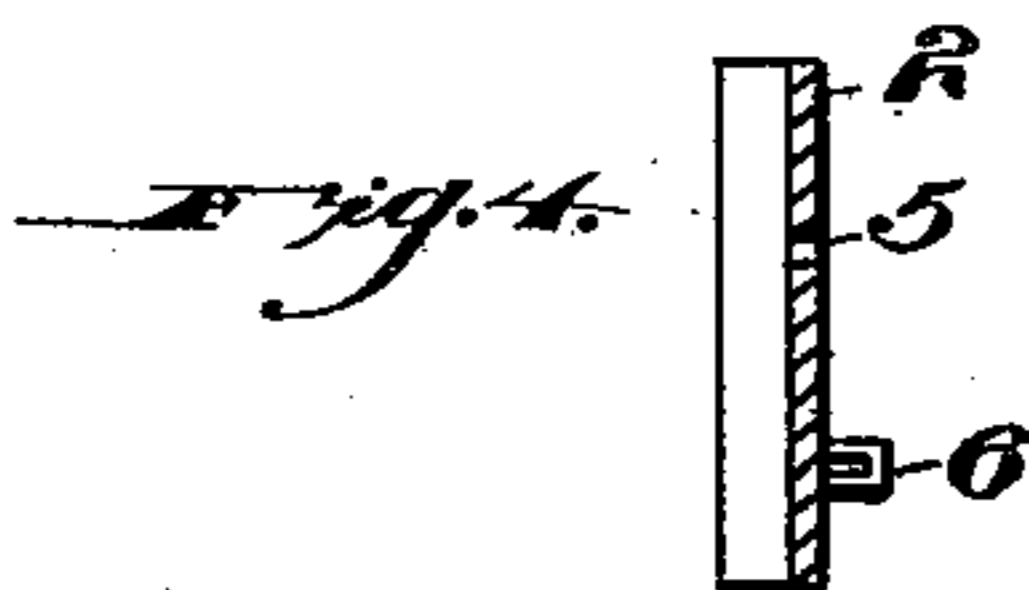
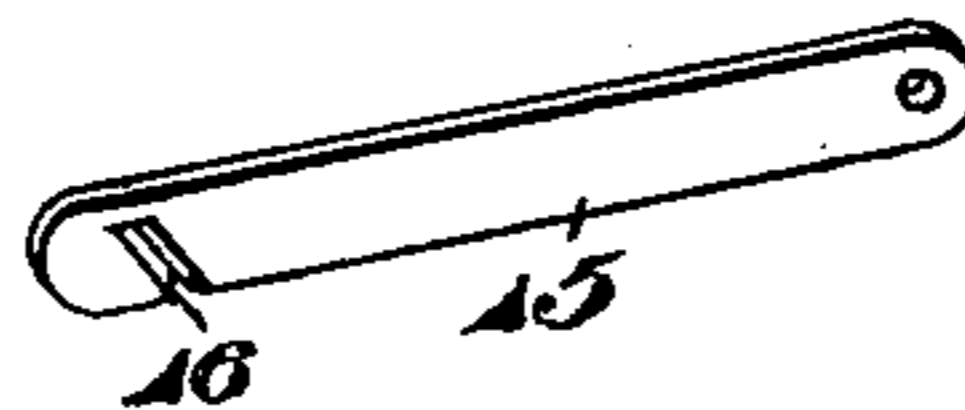
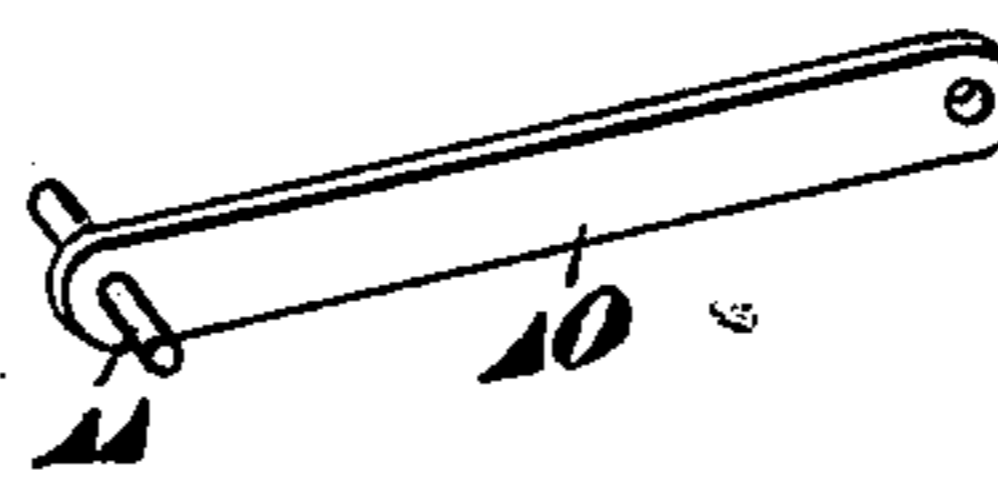


Fig. 7.



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REMOVABLE TOE-CLIP FOR BICYCLE-PEDALS.

SPECIFICATION forming part of Letters Patent No. 630,743, dated August 8, 1899.

Application filed February 10, 1899. Serial No. 705,193. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. RUSH, a citizen of the United States of America, residing at Derry Station, in the county of Westmoreland and State of Pennsylvania, have invented certain new and useful Improvements in Removable Toe-Clips for Bicycle-Pedals, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain new and useful improvements in removable toe-clips for bicycles.

The object of my invention is to construct a toe-clip of this character which can be secured to the pedal of a bicycle and easily removed therefrom when not desired for use.

My invention consists in the novel combination and arrangement of parts hereinafter more fully described, and particularly pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, wherein like numerals of reference indicate corresponding parts throughout the several views thereof, and in which—

Figure 1 is a perspective view of a bicycle-pedal, showing the toe-clip in dotted lines secured thereto. Fig. 2 is a front plan view of the supporting-bracket for the fastening means. Fig. 3 is a top plan view thereof. Fig. 4 is a vertical sectional view thereof. Fig. 5 is a perspective view of the lower or supporting portion of the toe-clip. Fig. 6 is a perspective view of the clamping-rod. Fig. 7 is a perspective view of one of the fastening-rods.

Referring to the drawings by reference-numerals, 1 indicates a bicycle-pedal which has connected to one side thereof the bracket 2. This bracket 2 is secured in position by having outwardly-extending flanges 3 formed integral with the inner face thereof and which are adapted to receive suitable fastening means 4, operating through suitable apertures arranged in the flanges and the fastening means connecting to the side of the pedal, as shown. The bracket 2 has suitably arranged therein, on each side thereof, the obliquely-extending elongated slots 5, and near the lower edge of the bracket is an out-

wardly-extending lug or pin 6, suitably secured in the aperture 7. The pin 6 has connected thereto the curved spring 8 at its center, so the spring will extend outwardly on each side of the pin 6.

Pivotaly connected to the bracket 2 by means of the pins 9 are the fastening-rods 10 10'. These rods have mounted in their free ends and which extends on each side thereof the securing-pin 11. The one side of the pin 11 is adapted to operate through the oblique slot 5 and engage one of the oblique slots 12, formed in the supporting portion 13 of the toe-clip 14, which is adapted to be inserted between the side of the pedal and the inner face of the supporting-bracket, as shown in dotted lines in Fig. 1.

The outer portion of the pin 11, which is mounted in the fastening-rod 10', has pivotally connected thereto the clamping-bar 15. This clamping-bar is formed with an inclined recess 16 on its free end and engages the outwardly-extending portion of the pin 11, which is arranged in the fastening-rod 10.

The operation for the removal of my improved toe-clip is as follows: Assuming that the parts are in the position as shown in Fig. 1, the fastening-rod 10 is pressed against the spring 8, which will allow for the removal over the pin mounted in its end of the clamping-bar 15. The rods 10 10' are then moved sidewise, which will release the inner portion of the pin 11 from the slots 12, formed in the supporting portion of the toe-clip. The toe-clip can then be readily removed.

When it is desired to secure the toe-clip to the pedal, the supporting portion thereof is inserted between the one side of the pedal and the bracket, as shown in Fig. 1 of the drawings. The fastening-rods are moved toward the spring 8, which brings the inner portion of the pin 11 in engagement with the recess formed in the supporting portion, and by bringing the clamping-bar so the recessed portion will engage the outer portion of one of the pins 11 the same by the action of the spring 8 against the rods 10 10' will securely fasten the toe-clip in position.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

1. In combination with the pedal of a bicycle, a bracket adapted to be secured to one side thereof, a toe-clip having the lower portion thereof mounted between the said bracket and the side of the pedal, said lower portion provided with oblique slots on each side thereof, a pair of fastening-rods pivotally secured to the said bracket, pins mounted in the ends of the said rods operating through the said bracket and in the oblique slots formed in the lower portion of the toe-clip, and means for clamping the said rods in position thereby securing the said toe-clip to the pedal, substantially as set forth.

2. In combination with the pedal of a bicycle, a bracket adapted to be secured to one side thereof, a toe-clip having the lower portion thereof mounted between the said bracket

and the side of the pedal, said lower portion provided with oblique slots on each side thereof, a pair of fastening-rods pivotally secured to the said bracket, pins mounted in the ends of the said rods operating through the said bracket and in the oblique slots formed in the lower portion of the toe-clip, a spring operating against the said fastening-rods, a clamping-bar pivotally secured to one of the said pins mounted in one of the fastening-rods and having its free end formed with a recess or slot adapted to engage the other of the said pins for clamping the fastening-rods in position thereby securing the toe-clip to the pedal, substantially as set forth.

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

THOMAS J. RUSH.

Witnesses:

THOMAS LONERGAN,
MAY E. RUSH.