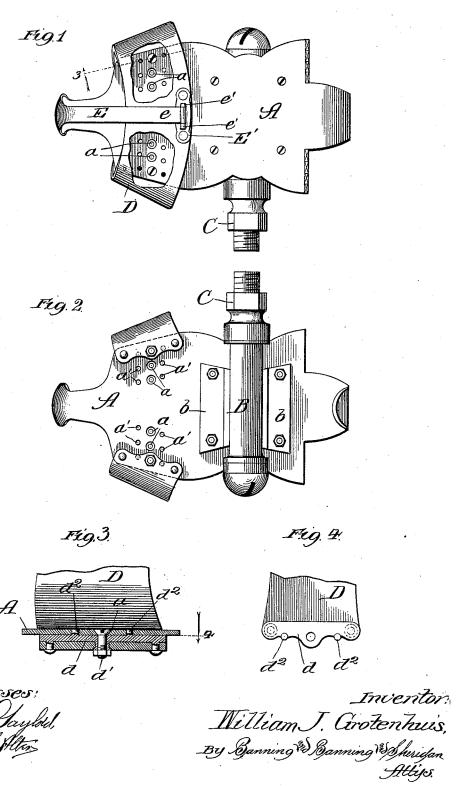
W. J. GROTENHUIS. VELOCIPEDE PEDAL.

(Application filed July 29, 1899.)

(No Model.)



UNITED STATES PATENT OFFICE.

WILLIAM J. GROTENHUIS, OF CHICAGO, ILLINOIS.

VELOCIPEDE-PEDAL.

SPECIFICATION forming part of Letters Patent No. 649,127, dated May 8, 1900.

Application filed July 29, 1899. Serial No. 725,520. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. GROTEN-HUIS, a citizen of the United States, residing at Chicago, in the county of Cook and State 5 of Illinois, have invented certain new and useful Improvements in Velocipede-Pedals, of which the following is a specification.

The principal object of my invention is to provide a simple, economical, and efficient pedal for velocipedes; and the invention consists in the features, combinations, and details of construction hereinafter described and claimed.

In the accompanying drawings, Figure 1 is plan view of a pedal constructed in accordance with my improvements, showing a portion of the flexible cover broken away and looking at the same from the top; Fig. 2, a plan view of a similarly-constructed pedal looking at it from below; Fig. 3, an enlarged sectional view taken on line 3 of Fig. 1, and Fig. 4 a detail plan view of a portion of one end of the flexible cover looking at it from above and detached from the other parts.

In constructing my improvements I use a base-plate A of the desired size, shape, and strength to support the foot of the average rider. This base-plate is provided with a tubular portion B, having wings b, by which it is secured to the base-plate. This tubular portion is provided with bearing portions and is rotatably mounted upon the usual pedal-pin C of the desired size and construction.

It is highly desirable to hold the rider's foot in position while riding, so as to prevent him from "losing" the pedal and at the same time protect the shoe and foot from injury. In order to accomplish this result, a flexible cover D is provided of the desired size, shape, and strength. This flexible cover is preferably formed of a single piece of leather or similar material and is provided at each end with a metal plate d, by which it is secured to the base-plate of the pedal. In order to seplate adjustably—that is, so that the ends may be moved farther in or out on the bottom of the plate, as the case may be, to increase the size of the opening between the cover and the base-plate—such base-plate is provided

with a series of holes a and a', the holes a being adapted to receive a securing-bolt d' and the holes a' adapted to receive the dowel-pins d^2 . When it is desired to change the size of the opening or size of the space between the 55 cover and the base-plate, the ends of the flexible cover are moved inwardly, so that the dowel-pins may engage with the proper holes. The securing-bolt is then thrust through the proper hole and all the parts firmly secured 60 together.

To sustain the flexible cover in its up position, a metallic spring E is provided, having one end secured to the base-plate and the other end passed upwardly and backwardly to a 65 central point and adjacent to the rear upper side of the cover, where it is pivotally secured at e. The means used for pivotally securing the upper end of the sustaining-spring to the cover is a metal piece E', which is riveted to 70 the cover and provided with lugs e'. These lugs are perforated, as is the end of the spring, and through these perforations is passed a pin. (Not shown in detail.) This supporting or sustaining spring is shown in the draw-75 ings as made integral with the base-plate. It will be understood, however, that while it is so shown it can be made separate from the base-plate and removably secured thereto. In fact, this latter form is the way in which I 80 prefer to make it, so that should such spring become broken it may be replaced without discarding the entire base-plate. It will also be seen that this supporting and sustaining spring may act as a stop for the toe of the 85 shoe, though it is preferable that it should not be so used for the reason that the toe should be allowed to contact the leather cover, and thus avoid injury to the same.

I claim—

1. In a pedal of the class described, the combination of a base-plate, a flexible cover secured thereto so as to form a space in which the rider's foot may be inserted, and a spring with one end secured to the base-plate and the other end pivotally secured to the cover to assist in maintaining it in its operative condition, substantially as described.

the size of the opening between the cover and | 2. In a pedal of the class described, the comthe base-plate—such base-plate is provided | bination of a base-plate, a flexible cover 100

formed of leather or similar material adjustably secured to the base-plate and providing between it and the base-plate a space for the insertion of the rider's foot, and a sustaining spring with one and secured to the base plate.

WILLIAM J. GROTENHUIS. 5 spring with one end secured to the base-plate and the other end pivotally secured to the cover portion on the upper side thereof so as

Witnesses:

R. L. TERRY, THOMAS B. McGregor.