

No. 644,512.

Patented Feb. 27, 1900.

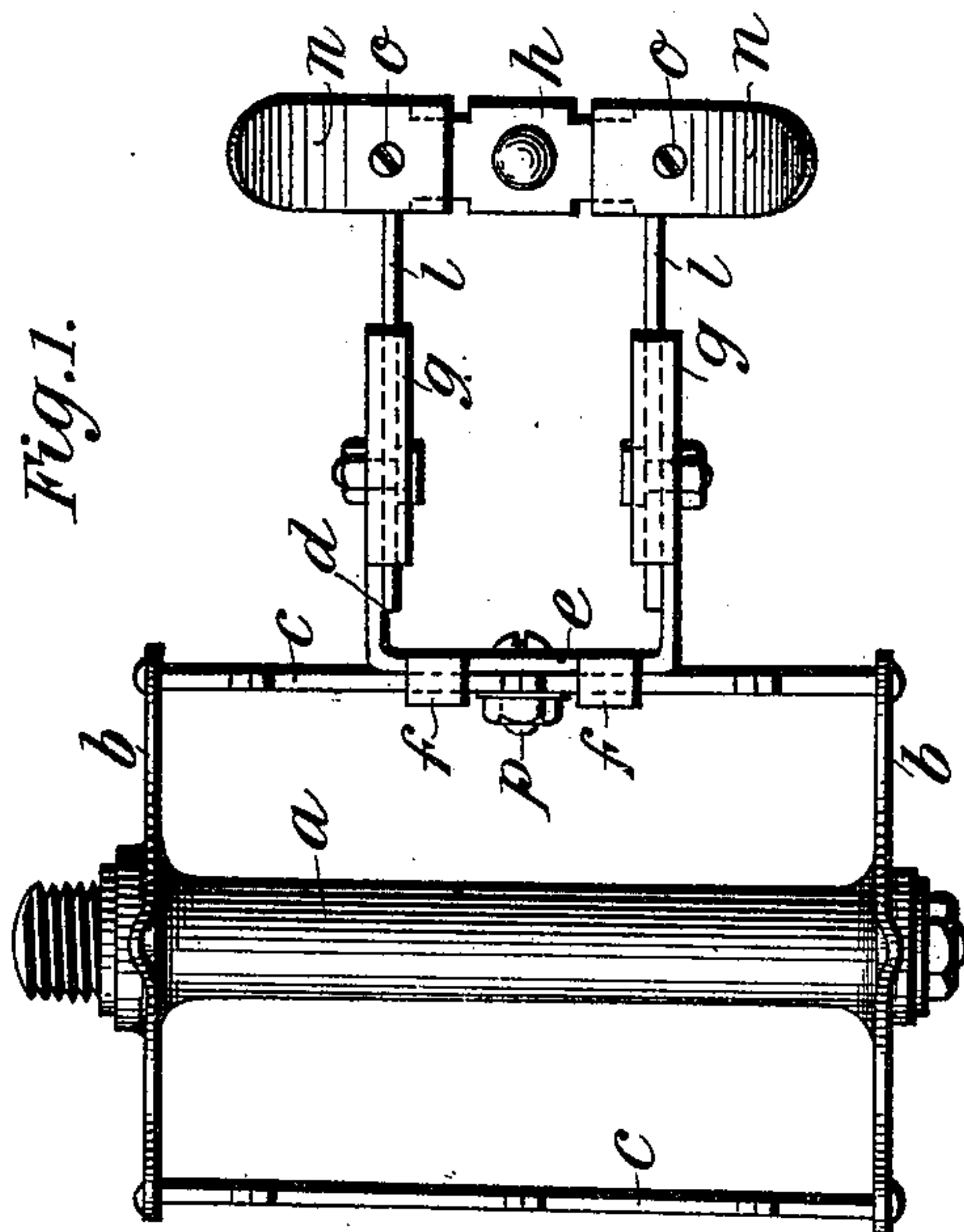
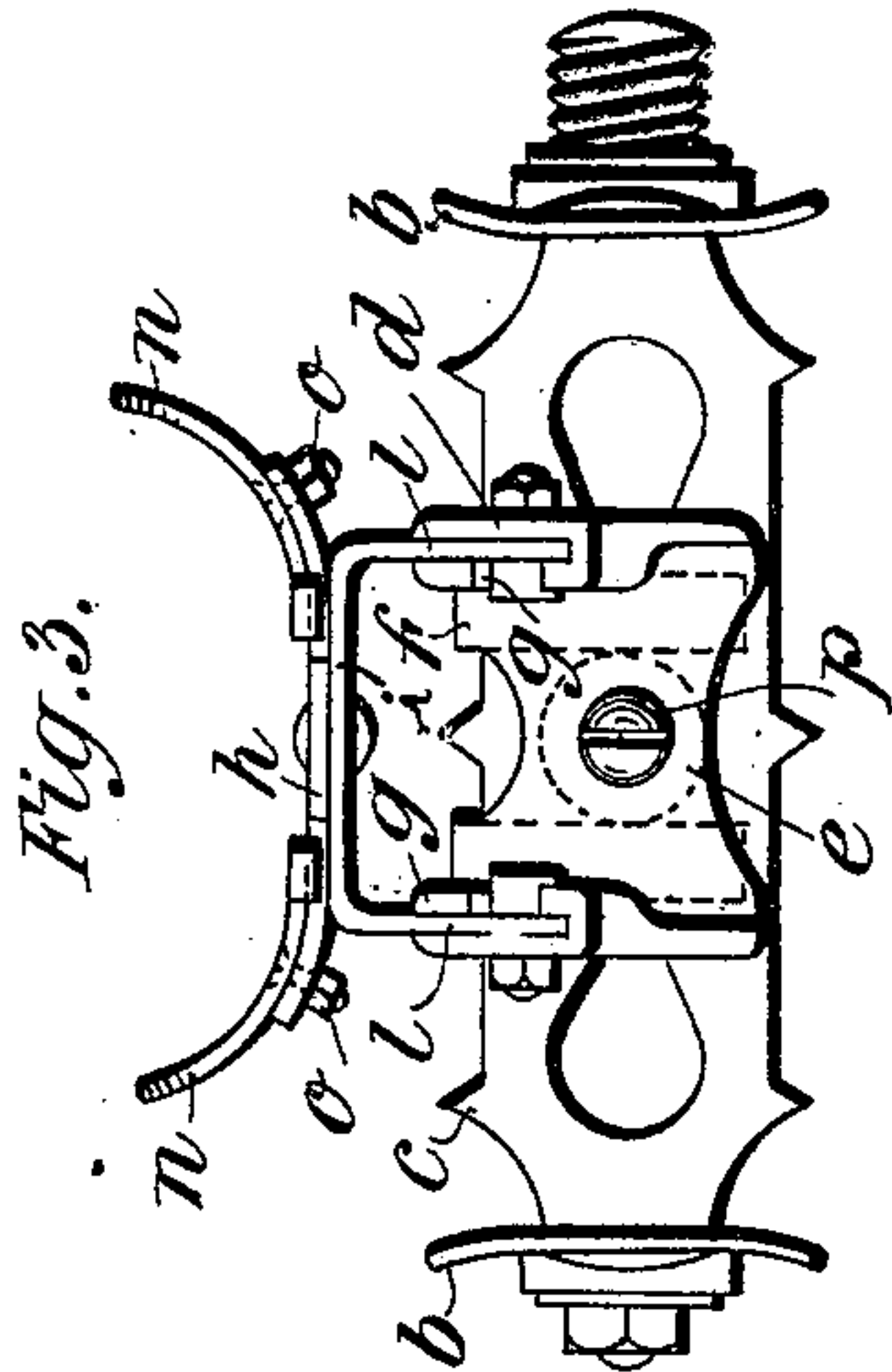
H. S. HALFORD.

CYCLE PEDAL.

(Application filed Sept. 17, 1896.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES.

Samuel Percival
Percy G. Brooks

INVENTOR.

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By his Attorneys
Wheatley & McKenzie

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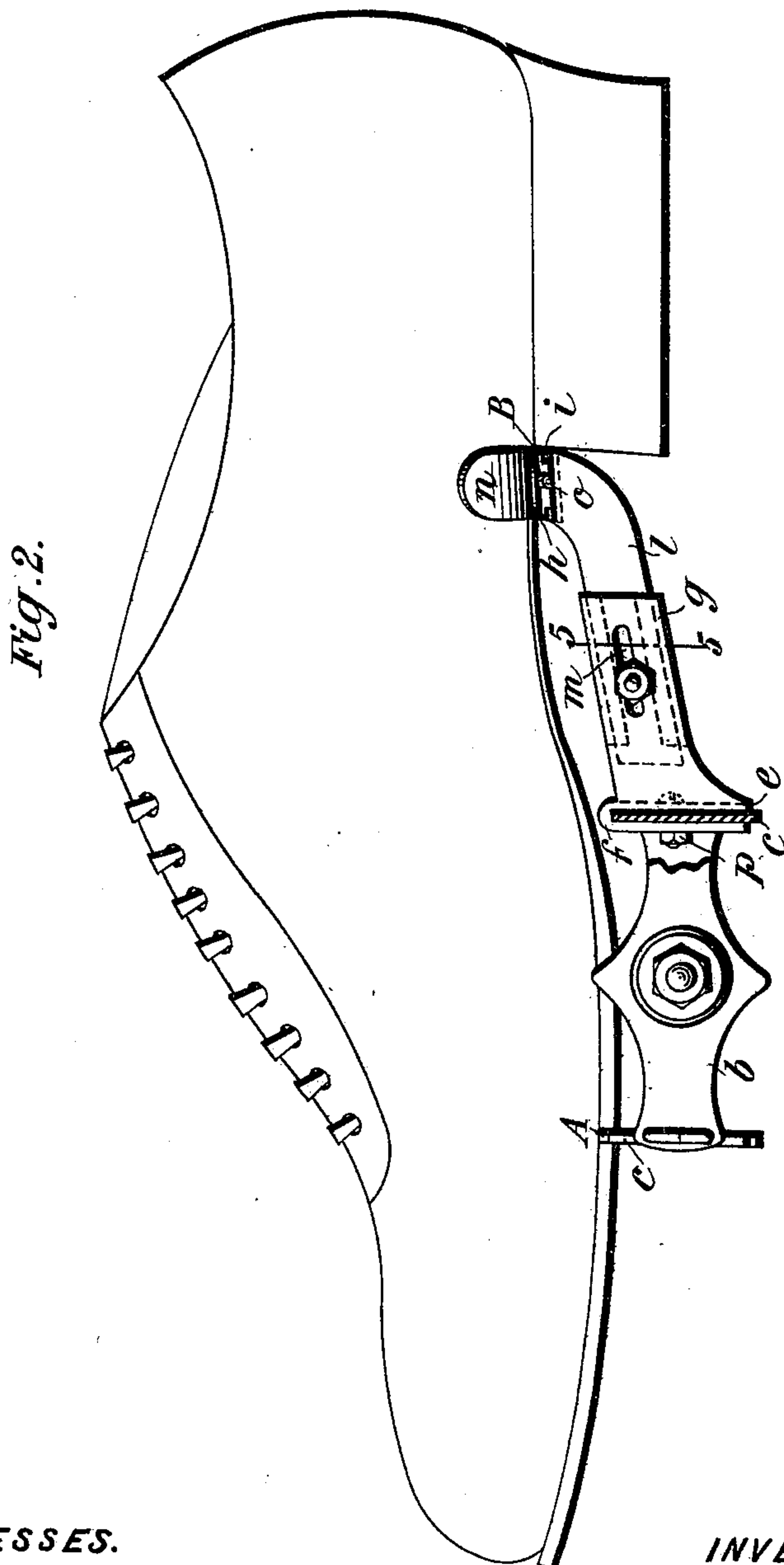
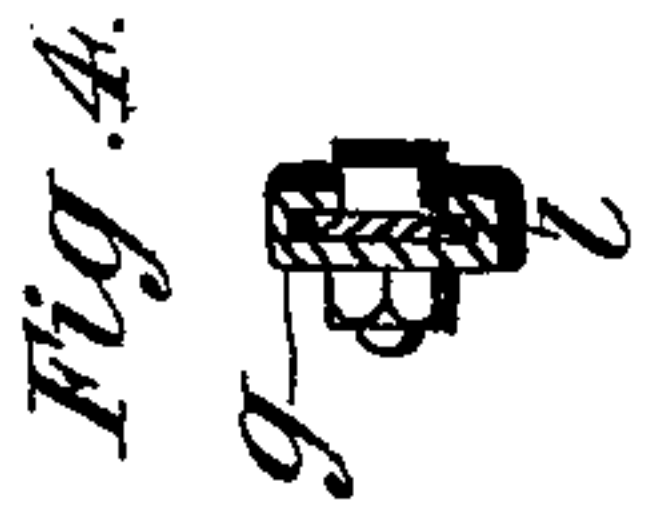
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UNITED STATES PATENT OFFICE.

HARRY SEBASTIAN HALFORD, OF LONDON, ENGLAND.

CYCLE-PEDAL.

SPECIFICATION forming part of Letters Patent No. 644,512, dated February 27, 1900.

Application filed September 17, 1896. Serial No. 606,173. (No model.)

To all whom it may concern:

Be it known that I, HARRY SEBASTIAN HALFORD, a subject of the Queen of Great Britain and Ireland, residing at Nevern Square, Earl's Court, Kensington, London, England, have invented certain new and useful Improvements in or Relating to Cycle-Pedals; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention for improvements in or relating to cycle-pedals has for its object to provide a pedal or pedal attachment that will give a longer bearing to the foot, so that the power exerted by the rider will be used to greater advantage than heretofore and also to keep the foot from slipping forward; and it consists in a rotatable pedal-body having a front support rigidly attached to the pedal to take the pressure of the ball of the foot of the rider and a rear support adapted to engage the waist of the foot immediately in front of the heel.

In the accompanying sheet of illustrative drawings, Figure 1 is a plan view of an adjustable support constructed according to this invention and removably attached to the pedal of a cycle. Fig. 2 is a side elevation showing the foot in position. Fig. 3 is a back end elevation; and Fig. 4 is a detail section on line 5 5, Fig. 2.

Referring to the drawings, the pedal shown is of ordinary construction having the central barrel *a*, containing the bearings, the end plates *b b* and the tread-plates *c c* taking the pressure of the foot. The bracket *d* has a face *e* to bear against the outer face of the rear tread-plate *c* and has turned-over tongues *f f*, that bear against the inner face of the rear tread-plate *c*. The bracket is arranged to incline slightly upward from its face *e* and is provided with guides *g g*, that are at the same inclination as the bracket. The foot-waist plate *h* is pivoted to the supporting-plate *i*, provided with arms *l l*, adapted to slide in the guides *g g* to enable the distance of the plate *h* from the front plate *c* to be adjusted. The arms *l l* are secured in any de-

sired position in the guides *g g* by bolts sliding in the slots *m m* in the guides.

The foot-waist plate *h* is made in one piece with turned-up ends, or the turned-up ends are formed as separate pieces *n*, secured to the plate *h* by bolts *o*, passing through a slot in the plate *h*, so that the pieces *n* can be adjusted to the width of the foot-waist.

The bracket is shown provided with two guides; but it is evident that only one may be employed, the bracket *d* being formed with only one arm. The support is inclined upward, so that the foot shall only be supported at the front tread-plate *c* and the foot-waist plate *h* to give a longer bearing to the foot, while at the same time allowing the same freedom of action. The whole may be further secured to the pedal by the bolt *p*. The rear support is shown as removably secured to an ordinary pedal; but it is evident that if a special pedal be constructed the rear support may be an integral part of the pedal. It will thus be seen that this construction gives a pedal which may be said to consist of a built-up lever having unequal arms to which the front and rear pedal-plates are attached, the structure consisting of the side frames *b*, rear plate *c*, guides *g*, and arms *l*, being a rigid structure and acting in use as a lever.

What I claim, and desire to secure by Letters Patent, is—

An adjustable attachment for cycle-pedals consisting of a rearward extension adapted to be attached to a cycle-pedal, an extension-arm adjustable on the rearward extension, and a rear support secured to the rear end of the extension-arm sufficiently above the plane of the bearing-surfaces of the pedal plates or blocks, that when the front plate or block bears against the ball of the foot and the rearward support against the waist of the foot immediately in front of the heel the rear plate or block is below the foot.

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

HARRY SEBASTIAN HALFORD.

Witnesses:

W. M. HARRIS,
ALBERT JONES.