

No. 608,393.

Patented Aug. 2, 1898.

A. E. JACKSON & P. J. BRITTEN.
BICYCLE SUPPORT.

(Application filed Oct. 2, 1897.)

(No Model.)

2 Sheets—Sheet 1.

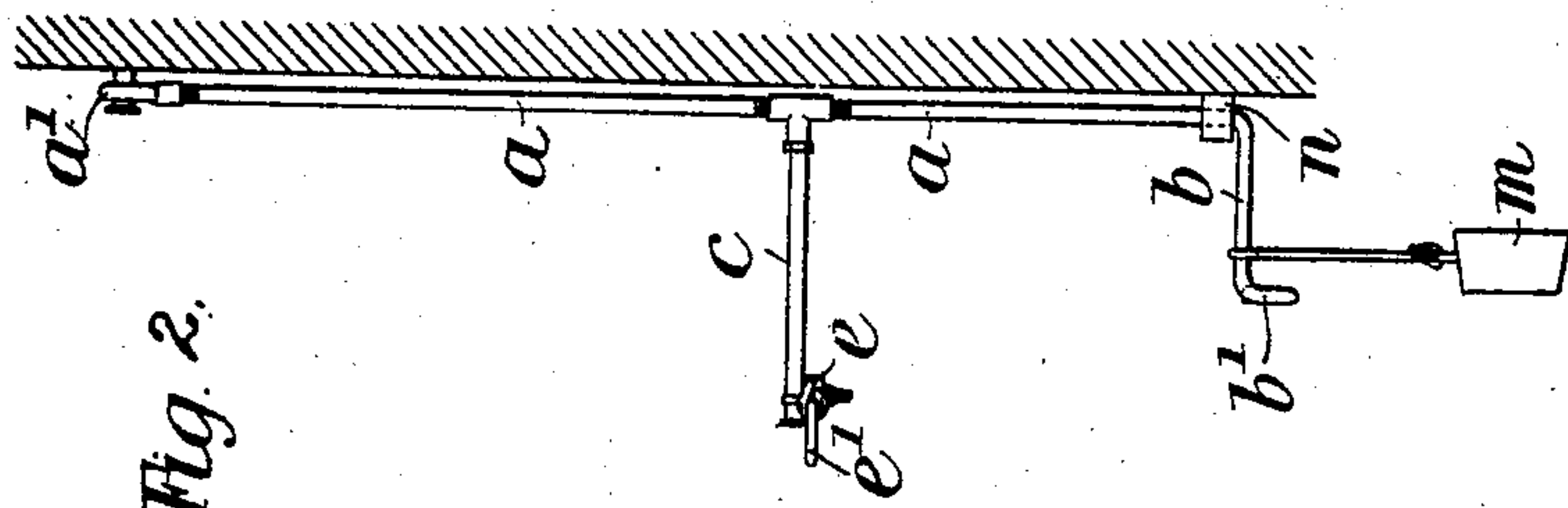


Fig. 2.

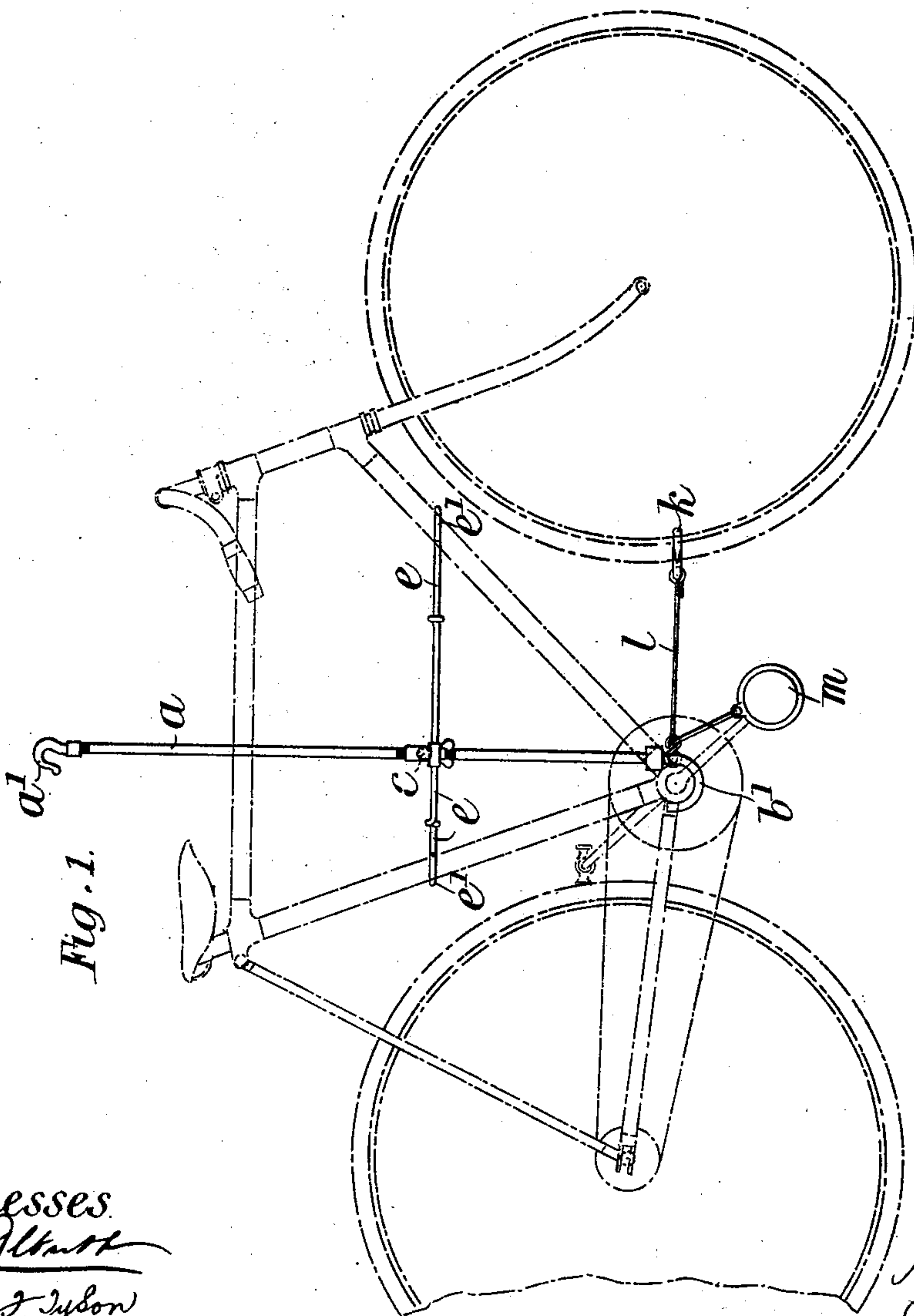


Fig. 1.

Witnesses
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Fig. 4.

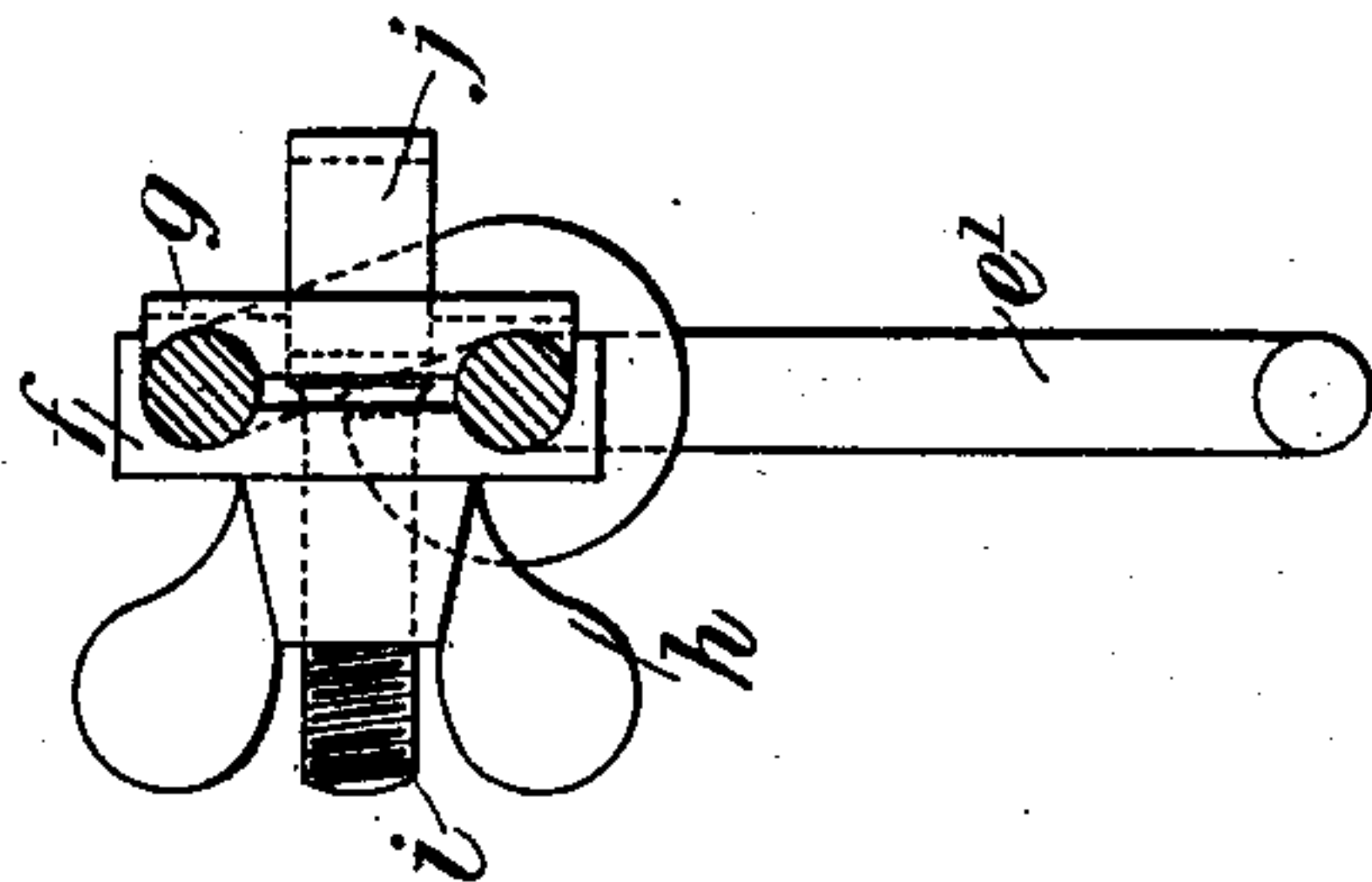


Fig. 6.

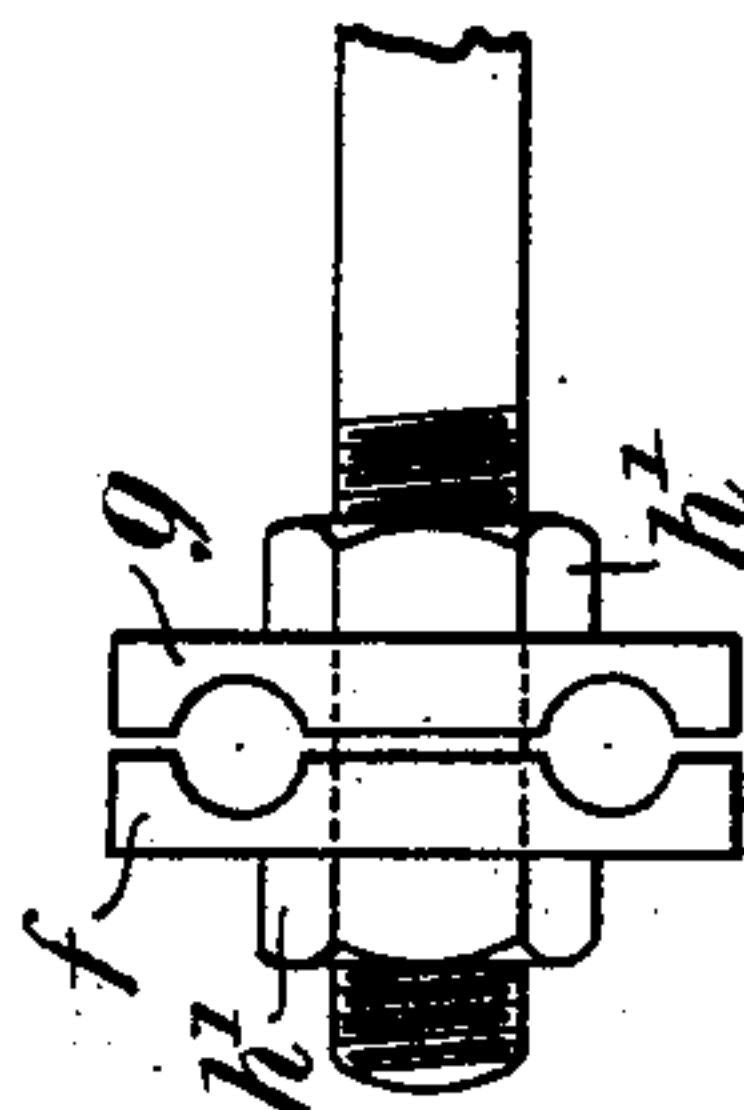


Fig. 3.

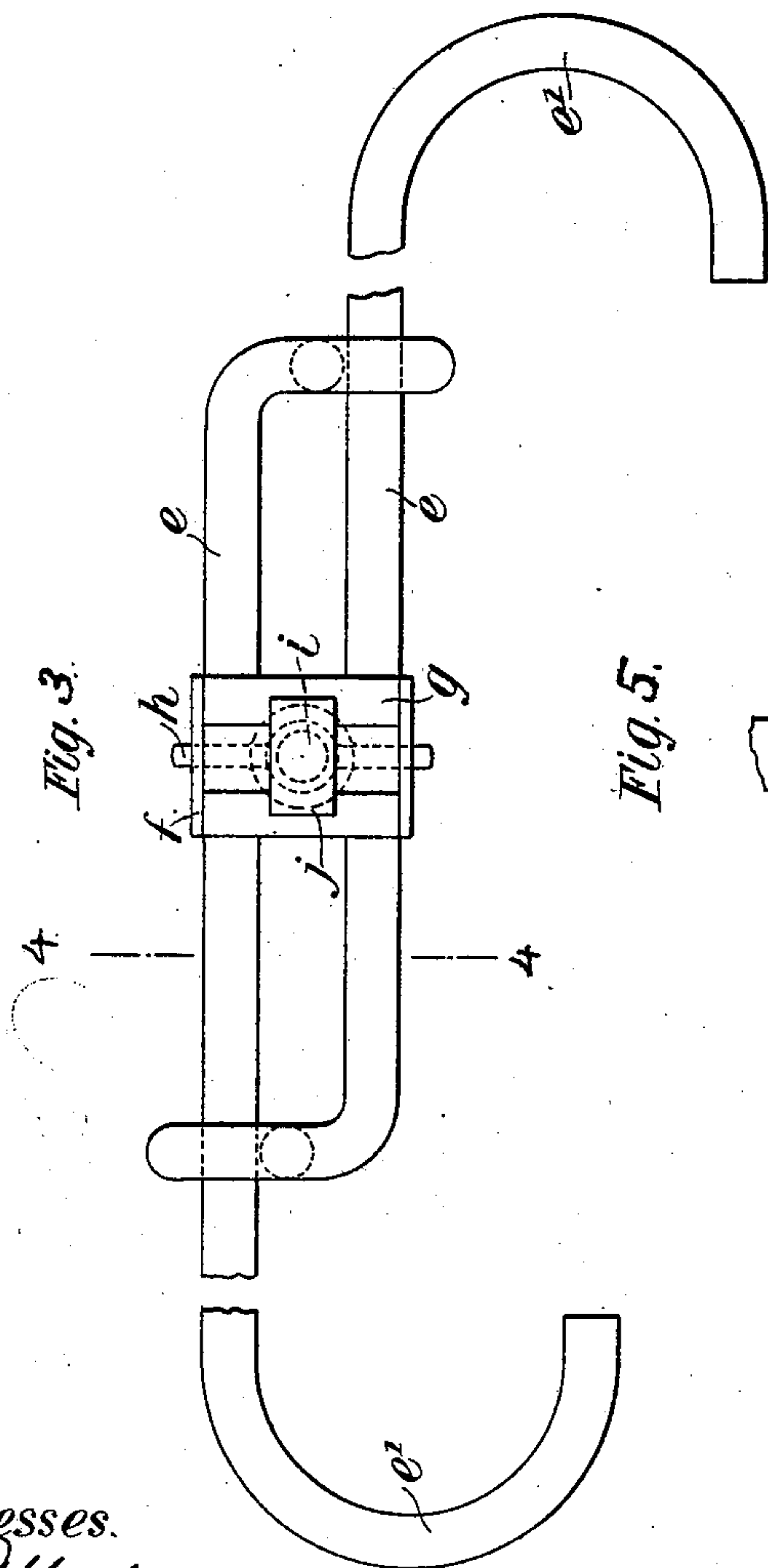
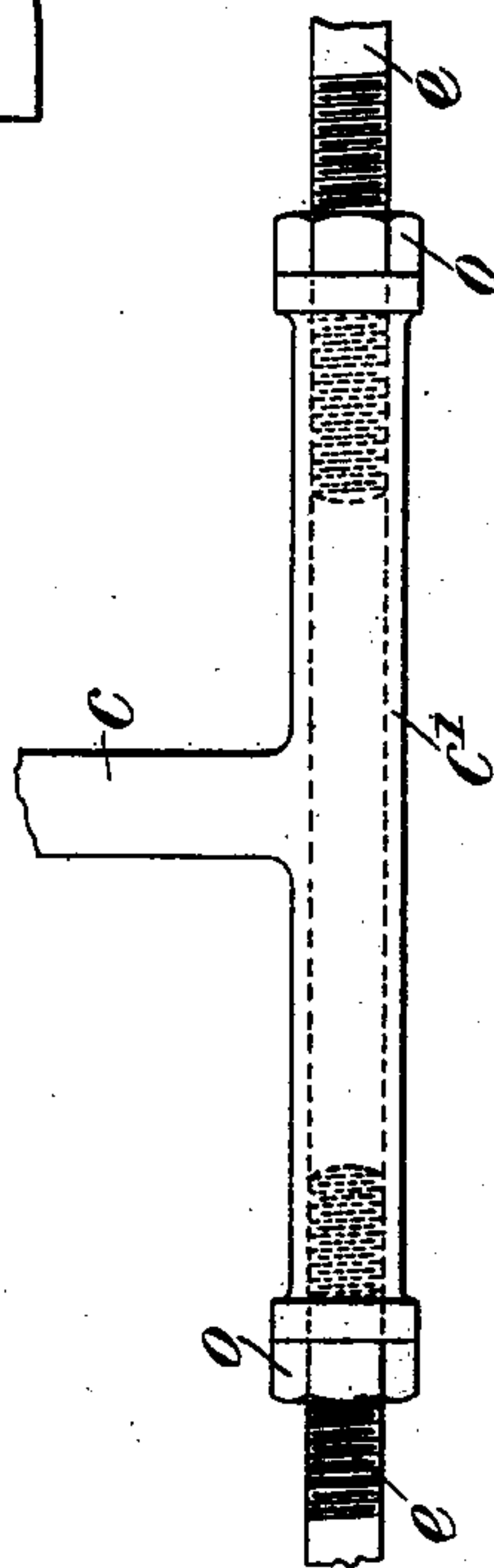


Fig. 5.



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UNITED STATES PATENT OFFICE.

ALBERT EDWARD JACKSON AND PERCY JOHNSON BRITTEN, OF LONDON,
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BICYCLE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 608,393, dated August 2, 1898.

Application filed October 2, 1897. Serial No. 653,854. (No model.)

To all whom it may concern:

Be it known that we, ALBERT EDWARD JACKSON and PERCY JOHNSON BRITTEN, subjects of the Queen of Great Britain, residing at London, England, have invented a new and useful Bicycle-Support, of which the following is a specification.

This invention relates to a novel bicycle-support adapted to be suspended or fixed to a wall, ceiling, or the like, so that the bicycle supported therein can be conveniently stored in places where otherwise there would be no room to receive it—such, for instance, as in halls, narrow passages, and the like.

According to the invention we provide a suitable frame adapted to be suspended and to lie against the wall or to be suspended from a ceiling and horizontal arms or supports projecting from the said frame and adapted to support the bicycle at the top and bottom.

In the accompanying drawings, Figure 1 is a front elevation of a bicycle-support made according to our invention. Fig. 2 is an end elevation thereof. Figs. 3, 4, 5, and 6 are views of details drawn to a larger scale.

In the construction of our support (shown in Figs. 1 and 2) the frame *a* is made of an upright bar of metal, bent at its upper end to form the hook *a'*, by which it can be suspended from the wall, ceiling, or the like, the said bar being at its lower end outwardly bent to form the lower arm *b* for supporting the bicycle. This arm *b* is bent at its outer end downwardly and laterally, so as to form the hook *b'* at right angles to the plane of the arm *b*, as shown, to engage and support the crank-hanger.

c is an upper horizontal arm, which is of metal, suitably secured to the upright bar and provided at its outer end with a clamp, by means of which adjustable bars *e e* can be rigidly secured in any position, so as to support the bicycle, as hereinafter described.

The clamp and the bars *e e* are shown to a larger scale in Figs. 3 and 4, which are respectively a plan of the device and a vertical section on the line 4 4, Fig. 3. The clamp here shown and which we have found to answer well in practice consists of two plates *f*

g, grooved to receive the bars *e e* and adapted to be gripped upon the said bars by means of the thumb or wing nut *h*, which works on the bolt *i*, the head of which is formed as an eye *j* for receiving the outer end of the horizontal arm *c*. The said eye *j* enters a recess in the plate *g*, so that by turning the thumb-nut *h* in order to tighten the plates *f g* upon the bars *e* the said clamp is also rigidly secured to the horizontal arm *c*.

The bars *e e* are bent at their outer ends to form hooks *e' e'*, which are adapted to pass around the tubes of the bicycle-frame, as shown in Fig. 3, and at the inner end each of the said bars is bent round, so as to form an eye or guide in which the other bar slides. When the said bars have been adjusted so that they grip the frame of the bicycle after the crank-hanger thereof has been placed upon the hook *b'* of the arm *b*, the thumb or wing nut *h* is tightened, so as to fix the bars *e e* securely together.

k is a hook secured by an elastic cord *l* or its equivalent to the arm *b* and designed to hold the steering-wheel of the bicycle against rotation when the machine is fixed in the support. *m* is a cap also secured by a cord to the arm *b*, the said cap being designed to cover the outer pedal when the machine is in position, and *n* is a rubber pad to prevent injury to the wall from the frame *a* and also to prevent the frame hanging out of the vertical should the weight of the bicycle not be disposed equally on each side thereof.

Fig. 5 illustrates a modified construction of clamp arrangement for the bars *e e*. In this case the said bars are screw-threaded at their inner ends and are screwed into the ends of a socket *c'*, formed upon the outer end of the horizontal arm *c* at right angles thereto. The bars *e e* are adjusted in the socket *c'* to the required position and are then secured in this position by nuts *o o*, which are tightened against the ends of the socket *c'*.

In Fig. 6 we have shown a construction of clamp consisting of two plates *f g*, grooved to receive the bars *e e* and having a central hole through which the screw-threaded outer end of the horizontal arm *c* is passed, the said plates being secured in position upon the

said arm *c* and being caused to grip the bars *e e* by nuts *h' h'*, working upon the screw-threaded end of the arm *c*.

The hooks *b', e', e'*, and *k* are covered with
5 suitable material, such as rubber, to prevent injury to the machine.

It will be obvious by our invention that bicycles can be stored upon walls, ceilings, and the like in narrow or small places at such a
10 height that they do not interfere with traffic underneath them.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed,
15 we declare that what we claim is—

1. A support for a bicycle comprising among its members a vertical bar provided at its upper end with a suspension device and adjacent to its lower end with an outwardly-
20 extending horizontal arm provided with a support for engaging the crank-hanger, said vertical bar being provided above said crank-hanger-supporting arm with an outwardly-extending arm provided with a pair of longitudinally-disposed, independently-adjustable arms, for engaging the bicycle-frame
25 bars, said crank-hanger support and said adjustable arms being located at a distance from the vertical rod sufficient to enable the pedal on the side toward said vertical rod to clear it, whereby said support may be hung
30 upon a wall to support a bicycle and will hold the bicycle away from the wall, substantially as described.

2. A support for a bicycle comprising among its members, a vertical bar provided at its upper end with a suspension device and adjacent to its lower end with an outwardly-
35 extending horizontal arm having a portion to receive and support the crank-hanger, said bar being provided intermediate its ends with a horizontal outwardly-extending arm having an adjustable clamp at its outer end and a pair of longitudinally-adjustable rods engaging
40 said clamp and disposed perpendicularly to said arm, said rods having on opposite

ends hook portions for engaging the frame-bars of the bicycle above the crank-hanger, whereby the bicycle will be supported at a distance from said vertical bar, substantially
50 as described.

3. A support for a bicycle comprising among its members, a vertical bar provided at its upper end with a suspension device and adjacent to its lower end with an outwardly-
55 extending horizontal arm having a portion to receive and support the crank-hanger, said bar being provided intermediate its ends with a horizontal outwardly-extending arm, having an adjustable clamp at its outer end and
60 a pair of longitudinally-adjustable rods engaging said clamp and disposed perpendicularly to said arm, said rods having on opposite ends hook portions for engaging the frame-bars of the bicycle above the crank-hanger, 65
whereby the bicycle will be supported at a distance from said vertical bar, a securing device for engaging the front wheel, an elastic connection between said device and the vertical bar, and a device for engaging one of
70 the pedals, secured to said vertical bar, substantially as described.

4. A bicycle-support comprising among its members, a vertical bar provided adjacent to its lower end with a horizontal arm having at
75 its outer end a device for engaging and supporting the crank-hanger, a horizontal arm secured to said vertical bar above the hanger-supporting arm, and provided at its outer end with a clamping device, and a pair of
80 horizontal rods engaging said clamp, each of said rods having its inner end provided with a guide engaging the other rod and provided on its outer end with a hook for engaging a portion of the bicycle-frame, substantially as
85 described.

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Witnesses:

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