

No. 615,995.

Patented Dec. 13, 1898.

B. C. LEONARD.
BICYCLE SUPPORT.

(Application filed Mar. 13, 1897.)

(No Model.)

2 Sheets—Sheet 1.

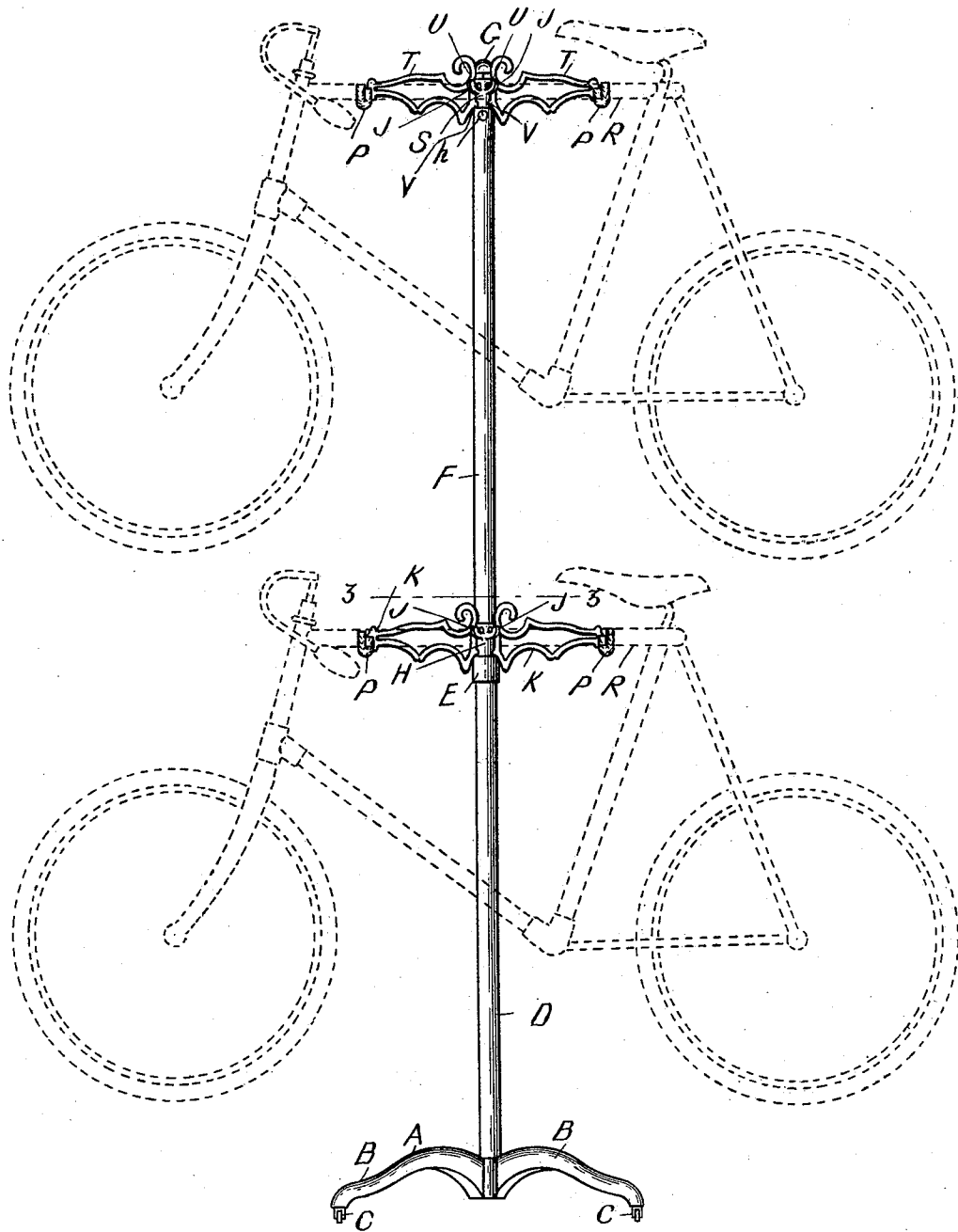


Fig. 1.

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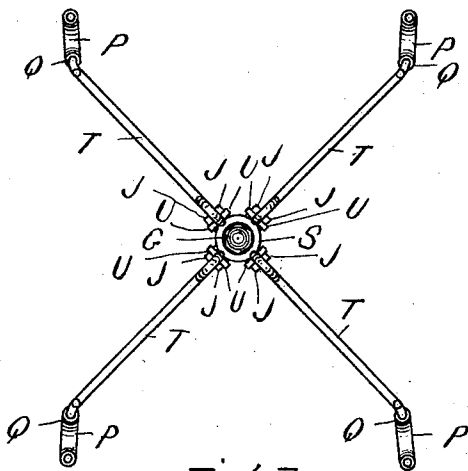


FIG. 2.

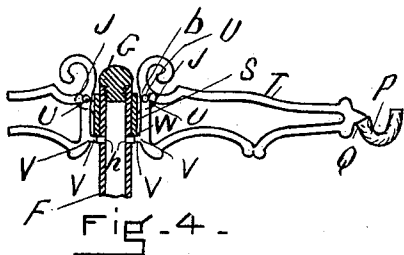


FIG. 4.

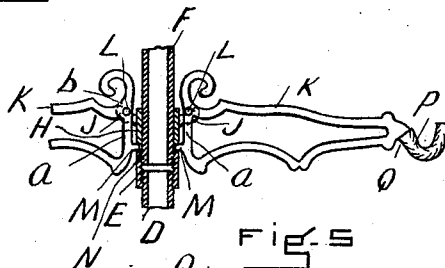


FIG. 5.

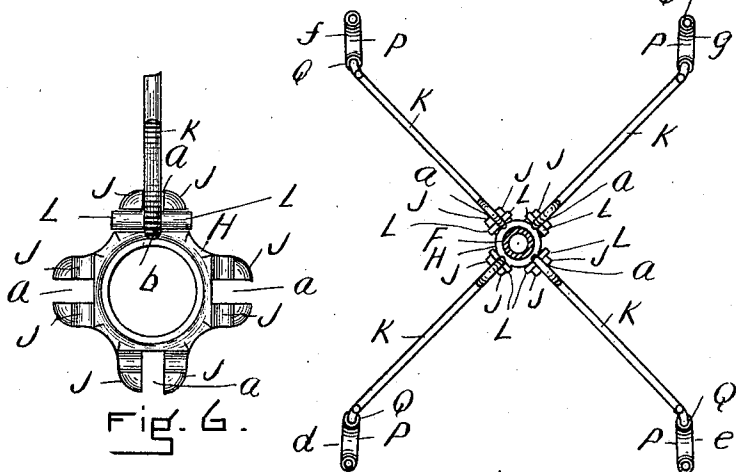


FIG. 3.

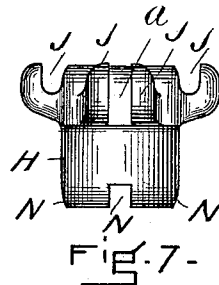


FIG. 7.

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UNITED STATES PATENT OFFICE.

BENNIE C. LEONARD, OF BROCKTON, MASSACHUSETTS.

BICYCLE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 615,995, dated December 13, 1898.

Application filed March 13, 1897. Serial No. 627,321. (No model.)

To all whom it may concern:

Be it known that I, BENNIE C. LEONARD, of Brockton, in the county of Plymouth and State of Massachusetts, have invented certain
5 new and useful Improvements in Bicycle Supports or Stands, of which the following is a full, clear, and exact description.

This invention consists of a stand or support for bicycles on which two or more bicycles can be conveniently placed and supported
10 above the floor in a good position for display of the same and can be conveniently moved about the room or place in which they are, all substantially as hereinafter fully described, reference being had to the accompanying
15 sheets of drawings, in which is illustrated a stand or support for bicycles constructed and arranged for use in accordance with this invention.

Figure 1 is a side view of the stand as constructed and arranged for the support of four
20 bicycles, showing in dotted lines bicycles supported thereon. Fig. 2 is a top view; Fig. 3, a plan view of the lower part of the stand below section-line 3 3, Fig. 1. Figs. 4 and 5 are
25 two detail sectional views of the connecting parts, with other parts in side view. Figs. 6 and 7 are respectively a plan and side view of one of the parts enlarged.

In the drawings, A represents a base or support consisting of four horizontal cross-legs B,
30 in the outer under end of each of which is a caster C. Screwing into this base or support at its central portion is a vertical rod D, which has
35 screwed or secured on its upper end a coupling E, having an internal screw-thread, into which is screwed another vertical rod F, having
40 in its upper end a plug or ball G for a finish.

H is a sleeve freely fitting over the lower
45 end of the upper rod F and resting on the coupling E, on which it can freely turn or swivel. From the outer side of the sleeve, near
50 its upper end, and forming a part thereof, project four sets of double hooks J, each having
55 a small central vertical space *a*, the sets being equal distances from each other circumferentially. These hooks are for the support
60 of arms K, and on the inner end of each arm, projecting laterally from each side, are pins
65 L, which are of a diameter to lie in a hook, the inner end *b* of the arm being disposed in

the space *a* of the hook, and a lug or projection M from the rear end of the arm L freely
70 extends into and through a slot N in the lower end of the sleeve and bears and rests against the rod at such place, which serves to hold the
75 arm K in its true and proper position for use. There are four of these arms, all constructed and supported alike, as shown in Fig. 3 in plan,
80 and the outer ends of each of these arms are made in the form of hook P, as shown more particularly in Fig. 5, over which is placed a covering Q of soft material, such as india-rubber.
85 The hooks of the two arms K next to each other (see Fig. 3) are bent toward each other, so as to be straight or parallel with each other,
90 as shown in the figure, and the hooks of the other two arms are bent toward each other, as shown, to be also straight and parallel with
95 each other, all for the better reception of the bicycles which are to be hung or supported thereon. In placing bicycles on the arms K
100 the horizontal bar R of the frame of the bicycle is placed within the two hooks *d e* of the arms, and another bicycle is supported on the hooks *f g* of the other arms, this mode
of supporting the bicycle relieving it of all strain upon any of the working parts and holding it firmly and conveniently in position
for examination and rest and up and away from the floor, and as the sleeve H, supporting
the arms K, is arranged to swivel on its rod the bicycles can be easily swung round
as desired to examine them more particularly. At the upper end of the upper rod F is another
loose sleeve S, resting on a shoulder *h* on the rod, which sleeve is constructed like
the sleeve H, having four sets of double hooks J, each of which set of hooks supports an arm
T, like the arm K, having lateral pins U and a bearing-knob V, which extends through an
opening or slot W in the sleeve S and bearing upon the rod F. Each of these arms T has
its hook P, which is covered with india-rubber, and, as shown in Fig. 2, the hooks P of
the two arms next to each other are bent toward each other to be parallel, and the hooks
of the other two arms are bent toward each other to be parallel in the same manner as
the arms K below and so that the horizontal bar R of the bicycle can be disposed thereon
and support the bicycles in the same manner. The upper set of arms, sleeves, and the hooks

for their support are constructed in a like manner as the lower set of arms, &c., being practically duplicates. This upper sleeve S is arranged to swivel, so its supporting-arms
5 can be swung round for examination of the same.

By this arrangement of supporting bicycles two bicycles can be arranged beside each other and another set above, as shown, and,
10 if desired, another set can be arranged above the upper one by a duplication of arms, &c., so that the bicycles can be conveniently supported for examination, away from the floor, and by the frame portions, thus being ar-
15 ranged very compact and close, and with the base or support on the floor on casters, can be rolled or moved about the room conveniently and easily.

The base or support can be of any suitable
20 shape and made in any suitable manner, and the rods D and F can be made in any way desired and secured together in any suitable manner, and can be made of gas-tubing, and the other parts can be cast, and all of any suit-
25 able metal. The arms can be easily removed and the parts unscrewed and all packed closely for convenient transportation.

If desired, only one arm need be used to support the bicycle, although it is preferable
30 to have the two arms, as described.

Any suitable material can be used to cover the hooks to prevent injury to the bicycle; but india-rubber is satisfactory.

Having thus described my invention, what
35 I claim is—

1. In a bicycle support or stand, in combination, a base or support, a central vertical rod in two parts secured to said base, arranged
40 to be secured together, a sleeve resting on a shoulder on the vertical rod and adapted to swivel thereon, four pairs of hooks on said sleeve, each pair projecting in parallel lines, a vertical space between each pair, radial
45 arms to each pair of hooks, each having at one end lateral pins adapted to engage with a pair of hooks, such end entering the space between the hooks, and each arm having a
hook at its outer end, the hook of each two
50 arms side by side being bent sidewise toward each other to be parallel vertically with each other, for the support of a bicycle.

2. In a bicycle support or stand, in combination, a base or support, a central vertical rod in two parts secured to said base, arranged
55 to be secured together, two sleeves, one at the

top end and the other at the central portion, each resting on a shoulder on the vertical rod, and adapted to swivel thereon, four pairs of hooks on each sleeve, each pair projecting in parallel lines, a vertical space between each
60 pair, radial arms to each pair of hooks, each having at one end lateral pins adapted to engage with a pair of hooks, such end entering the space between the hooks and each arm having a hook at its outer end, the hook of
65 each two arms being bent sidewise toward each other to be parallel vertically with each other, for the support of a bicycle.

3. In a bicycle support or stand, in combination a base, or support, a central vertical rod in two parts secured to said base, arranged
70 to be secured together, a sleeve resting on a shoulder on the vertical rod, and adapted to swivel thereon, openings through the sleeve at its lower end, four pairs of hooks on said sleeve, each pair projecting in parallel lines,
75 a vertical space between each pair, radial arms to each pair of hooks, each having at one end lateral pins adapted to engage with a pair of hooks, such end entering the space
80 between the hooks, a lug on such end to project into and through an opening in the sleeve and bear against the rod, and each arm having a hook at its outer end, the hook of each
85 arm side by side being bent sidewise toward each other to be parallel vertically with each other, for the support of a bicycle.

4. In a bicycle support or stand, in combination, a base or support, a central vertical rod secured to said base a sleeve resting on a
90 shoulder on the vertical rod and adapted to swivel thereon, two pairs of hooks on said sleeve, each pair projecting in parallel lines, a vertical space between each pair, radial arms to each pair of hooks each having at one
95 end lateral pins adapted to engage with a pair of hooks, such end entering the space between the hooks, and each having a hook at its outer end, the hook of each two arms side by side being bent sidewise toward each other to be
100 parallel vertically with each other for the support of a bicycle.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

BENNIE C. LEONARD.

Witnesses:

EDWIN W. BROWN,
FLORENCE I. GARRETT.