No. 667,716. Patented Feb. 12, 1901.

C. MALDANER.

HANDLE BAR SUPPORTER.

(Application filed Apr. 28, 1900.)

(No Model.)

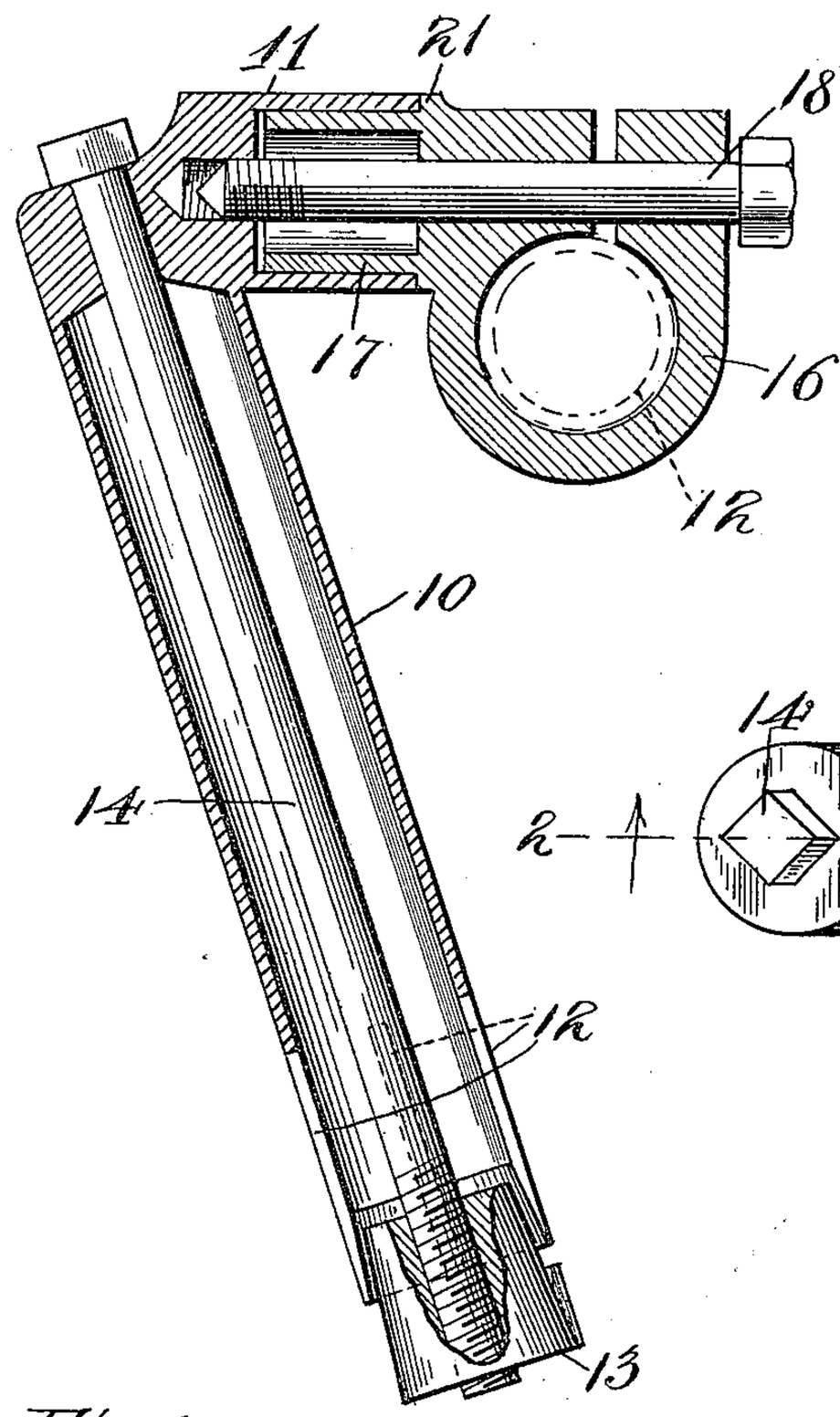


Fig 2

Fig 1

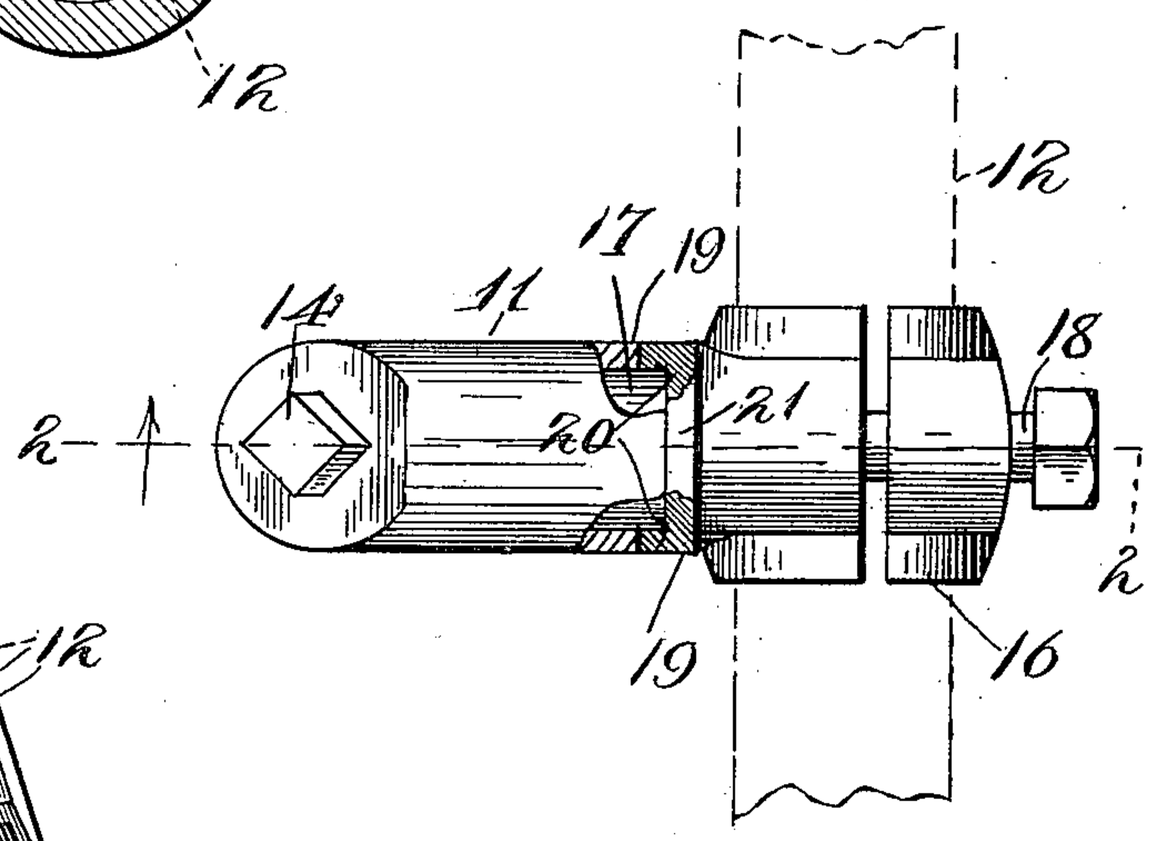


Fig 3

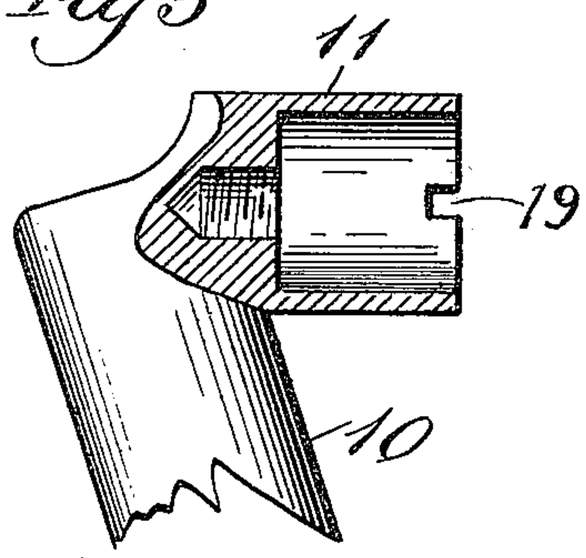
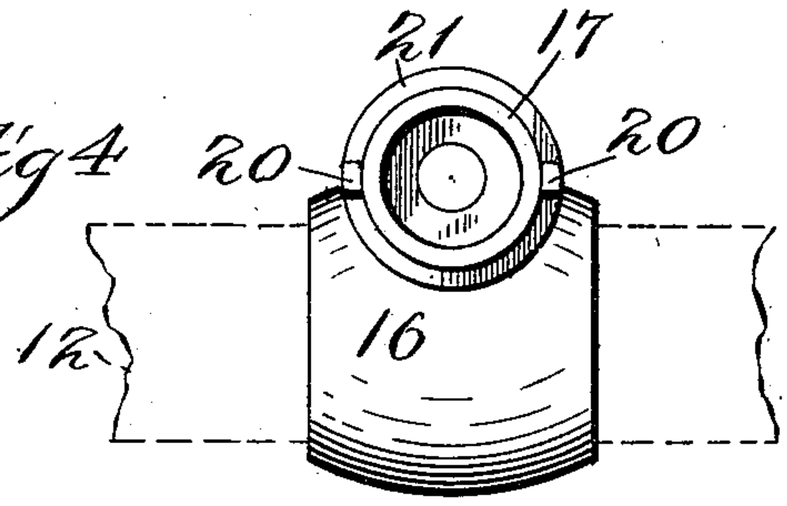


Fig 4



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES MALDANER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE CHICAGO HANDLE BAR COMPANY, OF ILLINOIS.

HANDLE-BAR SUPPORTER.

SPECIFICATION forming part of Letters Patent No. 667,716, dated February 12, 1901.

Application filed April 28, 1900. Serial No. 14,706. (No model.)

To all whom it may concern:

Be it known that I, CHARLES MALDANER, a citizen of the United States, and a resident of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Handle-Bar Supporters, of which the following is a specification and which are illustrated in the accompanying drawings, forming a part thereof.

This invention relates to what are known in the trade as "extension handle-bar supporters," in which there is a forwardly-projecting arm at the upper end of the supporter-stem, the handle-bar proper being secured at the forward end of such arm.

One object of the invention is to provide improved means for so securing a one-piece handle-bar to such an extension-support that it is capable of vertical adjustment independently of the vertical adjustment of the stem and admitting of the reversal of the handle-bar.

A further object is to cheapen the cost of and simplify the manufacture of handle-bar supports of this type.

These objects are attained by the construction hereinafter fully described, and which is shown in the accompanying drawings, in which—

Figure 1 is a detail plan view of the handle-bar supporter and a part of the handle-bar, some of the parts being broken away. Fig. 2 is a vertical section of the supporter. Fig. 3 is a detail side elevation of the stem of the supporter and its projecting arm; and Fig. 4 is a rearward elevation of the clamping-ring for holding the handle-bar, a portion of the handle-bar being shown in dotted lines.

The stem 10 for entering the steering-head may have a body portion of any desired form. As shown, it is tubular and slitted at its inner end, as shown at 12. An ordinary expander-plug 13 is located within the lower end of this stem, and a bolt 14 is provided for drawing the plug into the tube for the purpose of expanding it, so as to clamp it within the steering-head, this bolt projecting through the upper end of the stem.

The stem 10 is provided at its upper end with an integral forwardly-projecting arm 11. The handle-bar 12 is held within a split clamping-ring 16, which is provided with a tangential stem 17, adapted to telescopically enter a suitable socket in the end of the arm 11. A screw-bolt 18 passes through the lips of the ring 16 and along the axis of the shank 17 and enters a threaded socket in the arm 11 at the base of its shank-receiving socket. The end of the arm 11 is transversely grooved, as shown at 19, and the shank 17 is provided with radially-projecting lugs 20 for entering these grooves. The shank may be and preferably is provided at its base with a shoulder 21, adapted to abut against the end of the arm 11, the lugs 20 projecting forwardly from such shoulder. The shank 17 having been inserted within the socket of the arm 11 and the handle-bar being within the ring 16, the bolt 18 is turned up, at once securely and firmly drawing the shank 17 into the socket of the arm and drawing the lips of the ring 16 together, so as to clamp the handle-bar. As shown, the ring 16 extends downwardly from the arm 11. By loosening the bolt 18, so as to disengage the lugs 20 from the grooves 19, the handle-bar may be raised by simply turning the shank 17 upon its axis, so as to bring the ring 16 above the arm.

The long bearing of the shank 17 within the socket for receiving it prevents any lateral movement and almost entirely supports the strain, so that there is comparatively little lateral strain upon the bolt 18.

I claim as my invention—

1. In a handle-bar support, in combination, a stem for entering a bicycle steering-head, an arm projecting forwardly from such stem, a split clamping-ring for holding a handle-bar and having a tangential shank, the projecting arm of the stem being socketed to receive the shank, and a screw-bolt passing through the shank and the lips of the ring and entering the projecting arm.

2. In a handle-bar support, in combination, a stem having a forwardly-projecting arm, a split clamping-ring for holding a handle-bar and having a tangential shank, such shank telescopically entering the projecting arm and being adjustably rotatable with reference thereto, and means for securing the shank in its adjusted position and for compressing the clamping-ring.

CHARLES MALDANER.

Witnesses:

PAUL CARPENTER,

LOUIS K. GILLSON.