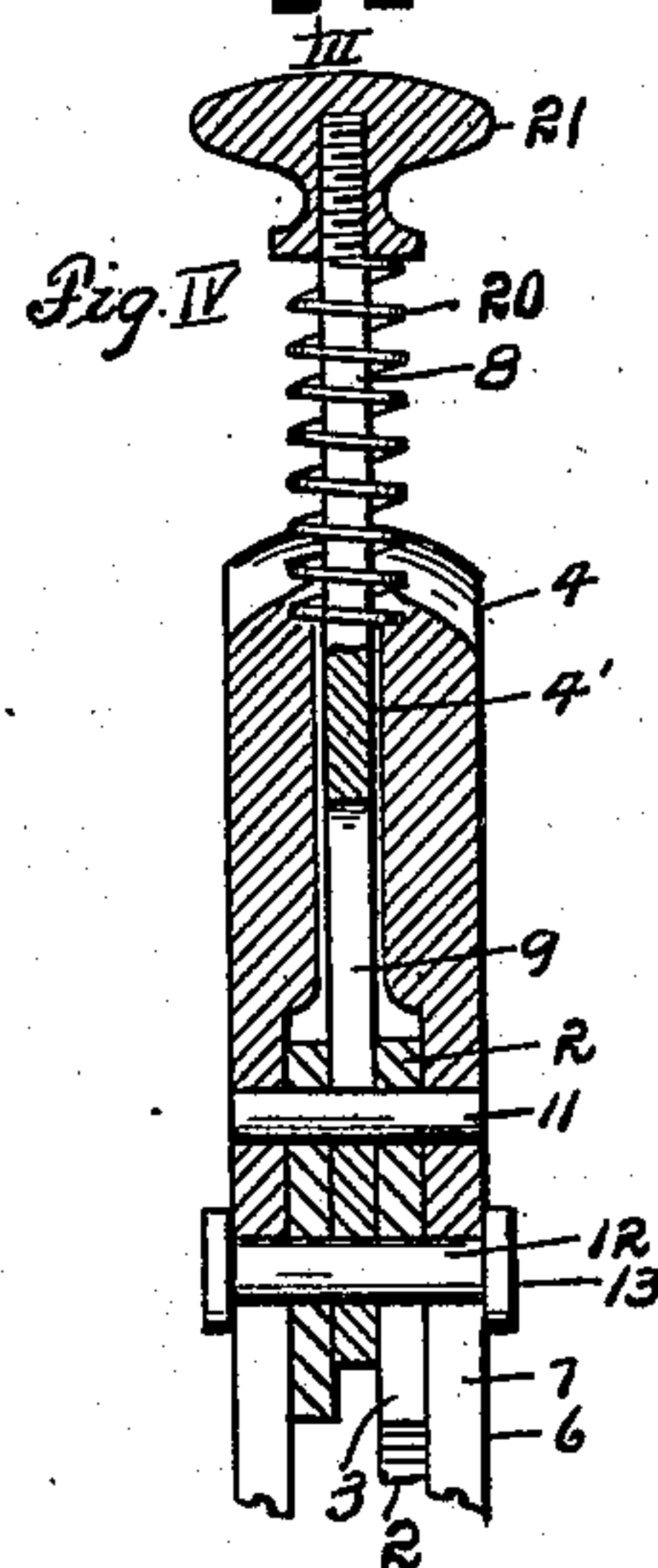
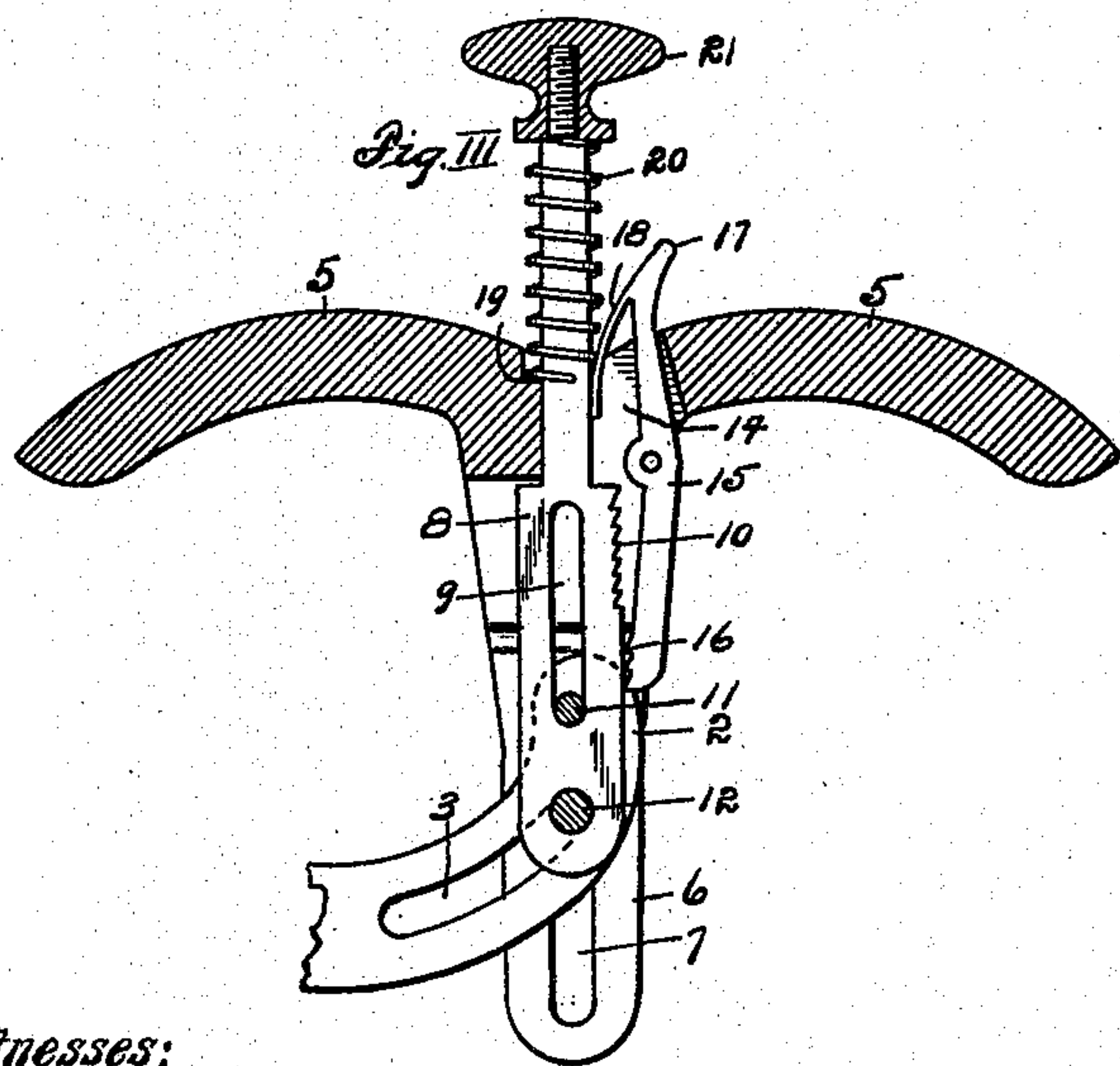
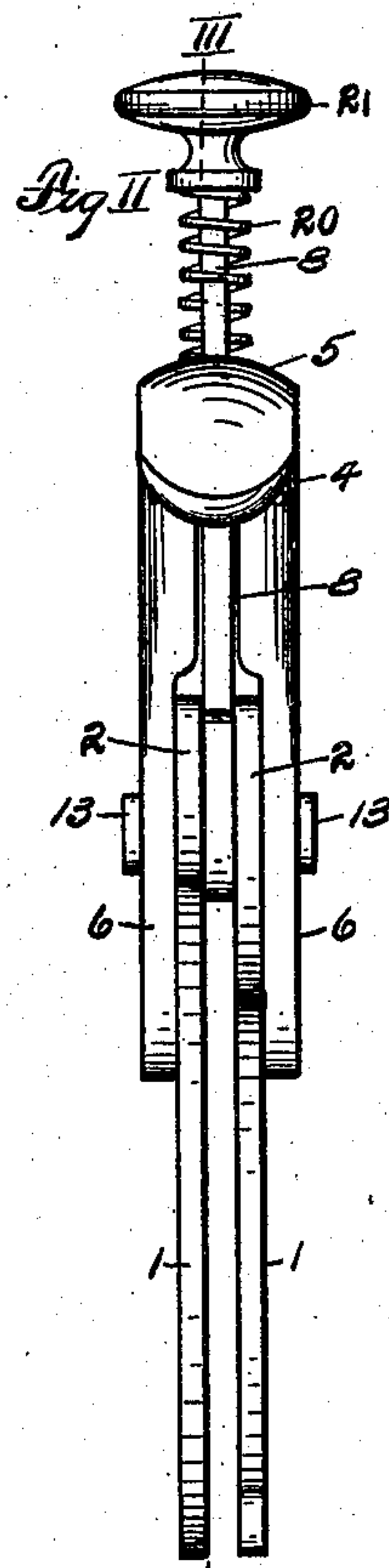
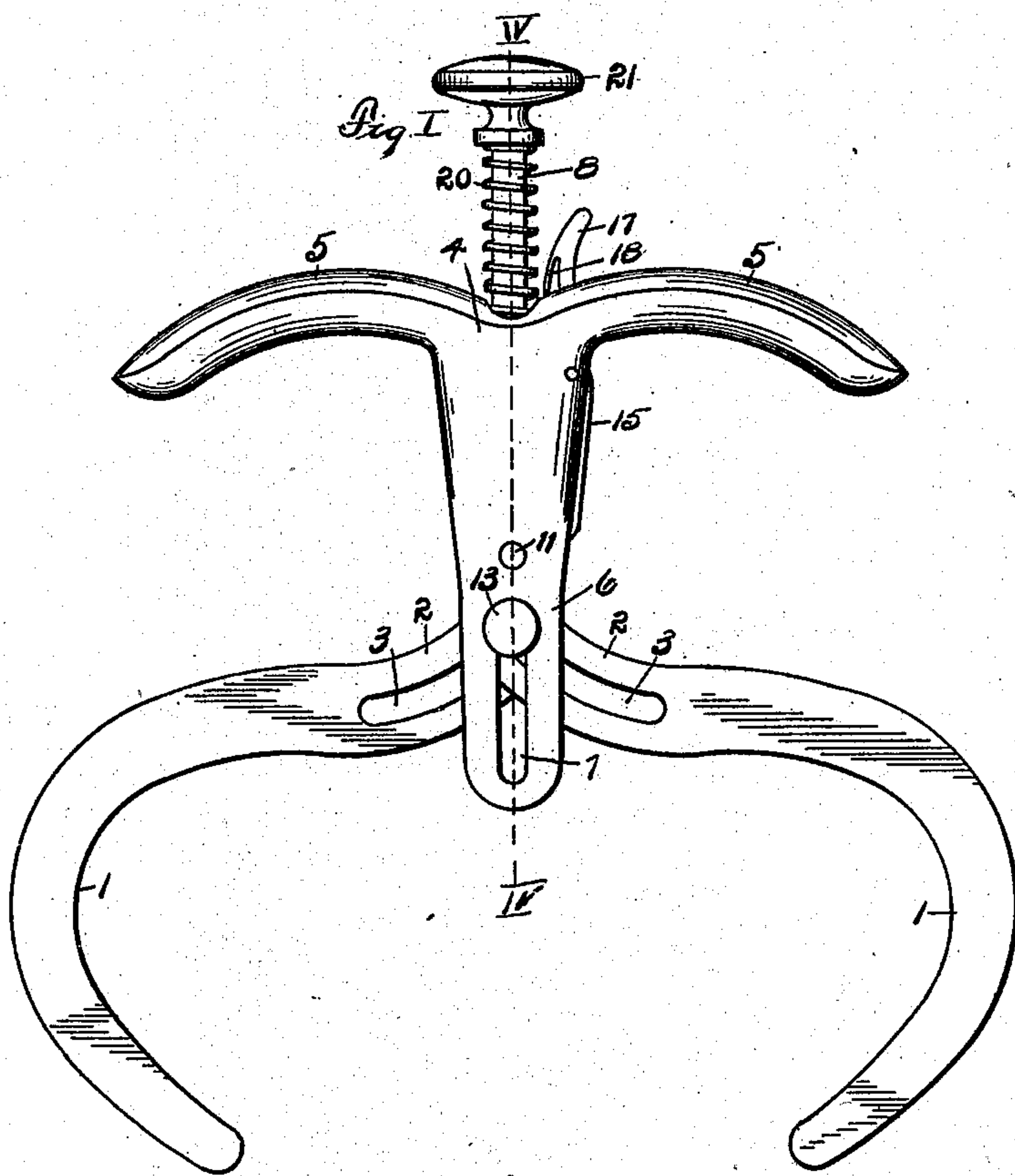


No. 885,811.

PATENTED APR. 28, 1908.

B. L. WARD.
MANACLE.

APPLICATION FILED MAR. 28, 1907.



Witnesses:

R. Hamilton.
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UNITED STATES PATENT OFFICE.

BARNARD L. WARD, OF OTTUMWA, IOWA.

MANACLE.

No. 885,811.

Specification of Letters Patent.

Patented April 28, 1908.

Application filed March 28, 1907. Serial No. 365,178.

To all whom it may concern:

Be it known that I, BARNARD L. WARD, a citizen of the United States, residing at Ottumwa, in the county of Wapello and State of Iowa, have invented certain new and useful Improvements in Manacles; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My present invention relates to manacles, and more particularly to an improved means for locking and releasing the clamp members of such a device; this invention being an improvement on the device shown in Letters Patent No. 778,761, issued December 27, 1904, to Axel L. Nelson, the entire right to which invention and Letters Patent are now owned by me.

The object of my invention is to provide a manacle of the construction shown in the above mentioned patent, in which the clamp members are automatically locked when applied to the wrist, but in which the locking parts are not accessible to one held thereby, although readily operated by the custodian.

The improved structure is illustrated in the accompanying drawings, in which,—

Figure I is a view in side elevation of a manacle bearing my improvements. Fig. II is an end view of same. Fig. III is a view in longitudinal section on the line III—III, Fig. II. Fig. IV is a transverse sectional view on the line IV—IV, Fig. I.

The numerals 1 represent the clamp members which are curved as shown, and provided at one end with the reversely bowed shank portions 2, having the arcuate slots 3.

4 is the head portion having the grip members 5, and a bifurcated neck, the arms 6 of which are slotted at 7, and embrace the clamp member shanks. Projecting through a channel 4' in the head 4 is a stem 8, the inner end of which extends between shanks 2 and is provided with a slot 9, while one of its edges is provided with ratchet teeth 10.

Extending through the neck arms at about their longitudinal center, and also through perforations in the ends of shanks 2 and through the slot in stem 8 is a pivot pin 11,

which anchors the clamp members to the head, and over which the stem is adapted to travel.

Extending through the slots 7 in the head neck arms, through the arcuate slots in the clamp member shanks, and through a perforation in the end of stem 8 is a loose pin 12 adapted to travel in said slots, but provided with the keeper heads 13 to prevent its lateral displacement.

Projecting through, and pivoted in a recess 14 in head 4 which communicates with the channel 4' is a lever 15, the lower end of which is provided with teeth 16 adapted for engagement with the teeth 10 on stem 8, and at its outer end with the thumb piece 17.

18 is a flat spring rigidly secured to the outer end of lever 15 and bearing against stem 8 in a manner to yieldingly retain the upper end of the lever away from the stem and the lower end thereof inwardly with its teeth in engagement with the teeth on said stem.

19 is a seat sunk into the head around the stem channel and 20 is a compression spring resting in said seat and surrounding stem 8, with its upper end bearing against a button 21 on the outer end of said stem.

In use, the upper end of the catch lever is pressed inwardly to rock its lower toothed end out of engagement with the stem ratchet, when the compression spring 20 forces the stem outwardly by its tension against button 21, thereby drawing the loose pin 12 outwardly and causing the clamp members to spread during the travel of the pin through the arcuate slots in the clamp member shanks. By grasping the handle grips by the fingers, with the button in the palm, and closing the hand, the stem will be forced inwardly, forcing the loose pin through the arcuate slots in the clamp member shanks, and drawing the clamp members together. The catch lever being free, the lower toothed end thereof is held in yielding contact with the ratchet teeth on the stem by means of spring 18 so that the stem teeth slide over the catch teeth during the closing action, but as soon as the pressure on the stem is released and the outward tension of spring 20 is exerted, the lever teeth lock the stem against outward movement, and hold the clamp members closed until released by rocking the catch lever in the manner described.

Having thus described my invention, what I claim as new therein, and desire to secure by Letters Patent is:—

1. A manacle comprising a head having a
5 stem channel and a lever recess, handle portions projecting laterally from said head, yoke arms projecting from said head intermediate said handle portions, clamp arms
10 carried by said yoke arms, an actuating stem projecting through said stem channel and connected with said clamp members, a catch lever pivoted to said head and projecting
15 through said lever recess, a stem locking member on one of said lever arms, an operating head on the opposite lever arm, the latter located above said handle portions, and means for normally retaining said locking member in engagement with said stem.

2. A manacle comprising a head having a lever recess, a neck projecting from said head 20 and provided with a stem channel, and communicating with the recess in said head, clamp members carried by said neck, an actuating stem extending through said channel and having a connection with the clamp 25 members, ratchet teeth on said stem, and a catch lever pivoted in said recess and normally held in yielding locking engagement with said stem.

In testimony whereof I affix my signature 30 in presence of two witnesses.

BARNARD L. WARD.

Witnesses:

JOHN F. WADE,
A. M. MAXWELL.