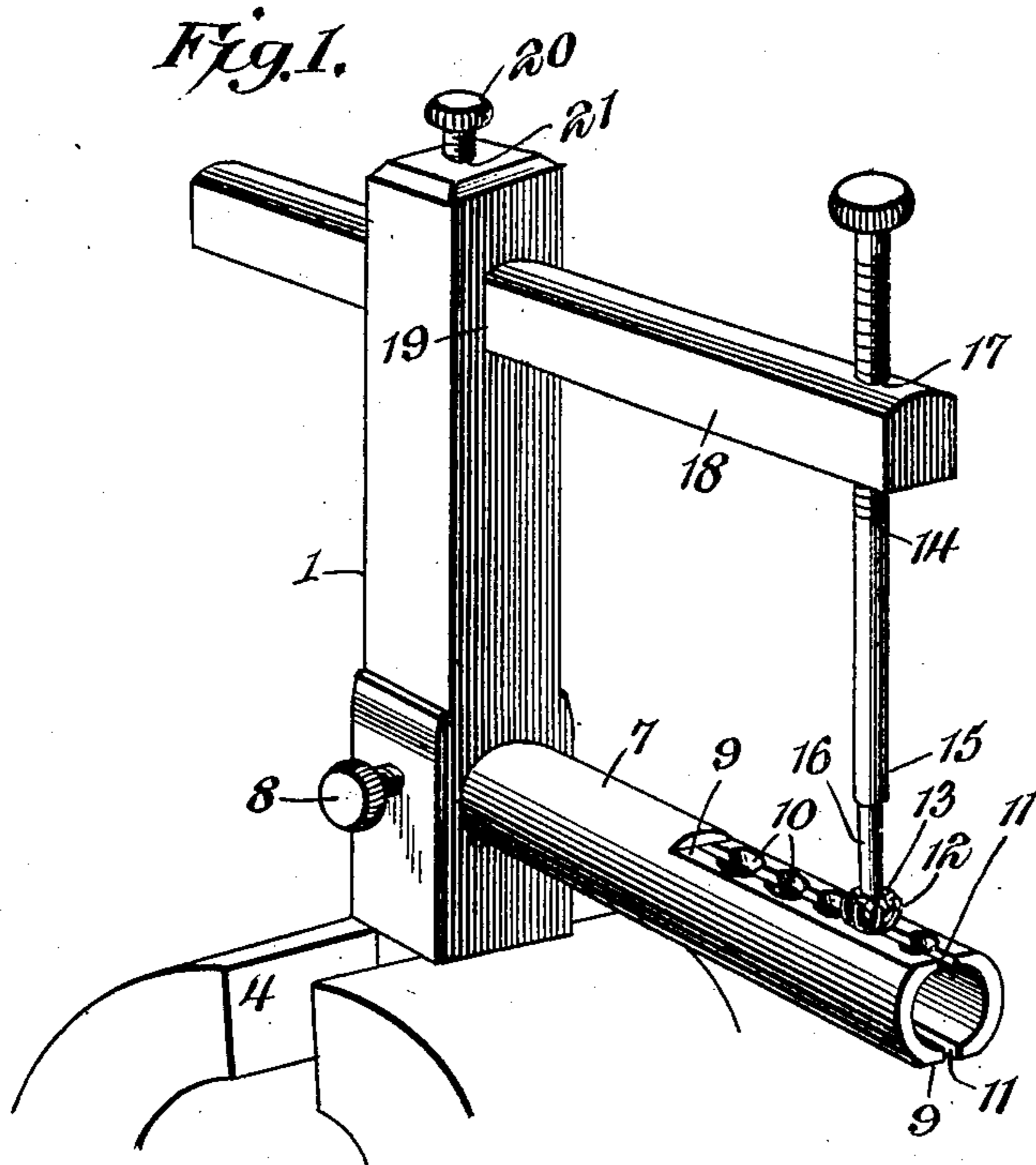


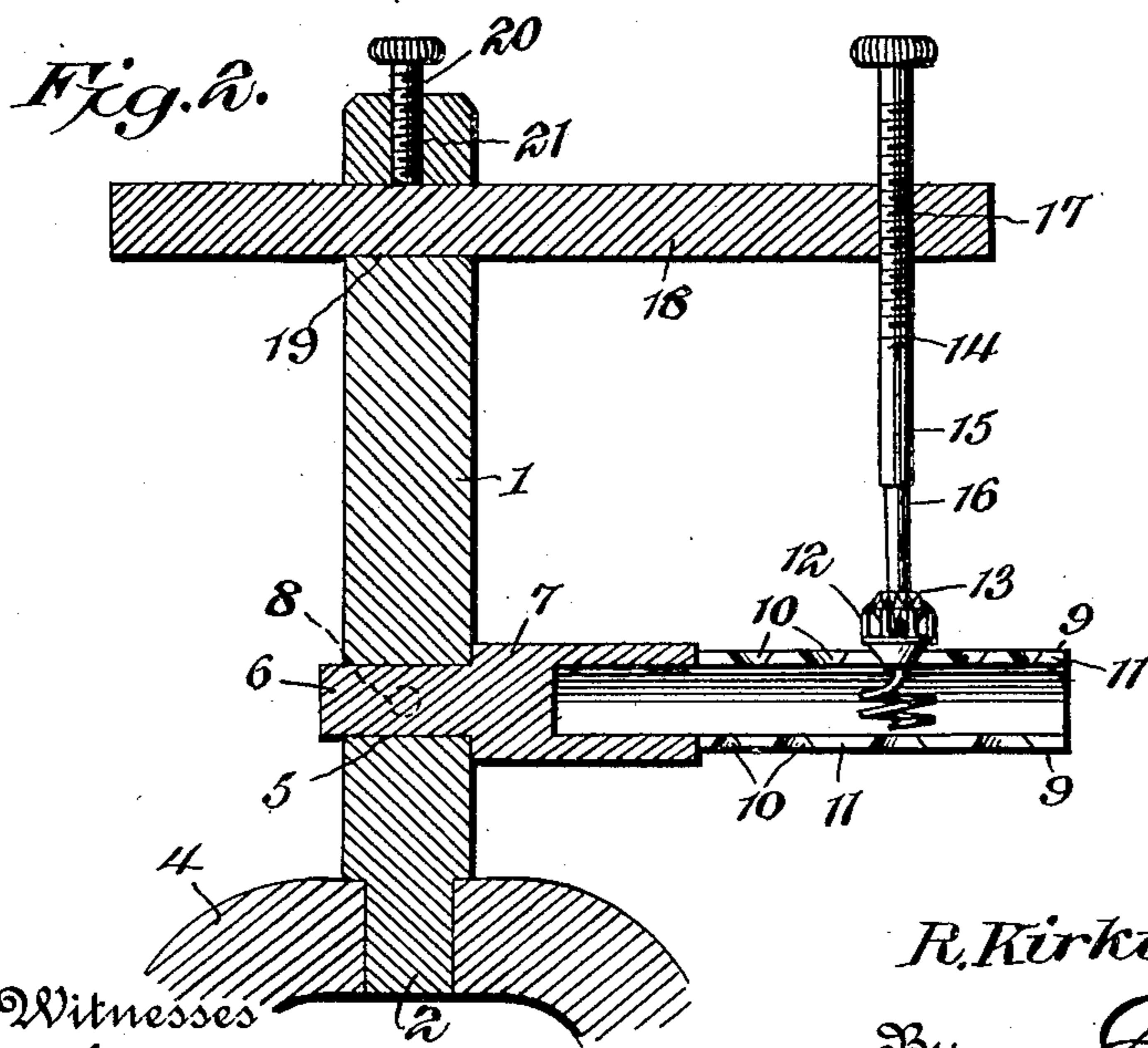
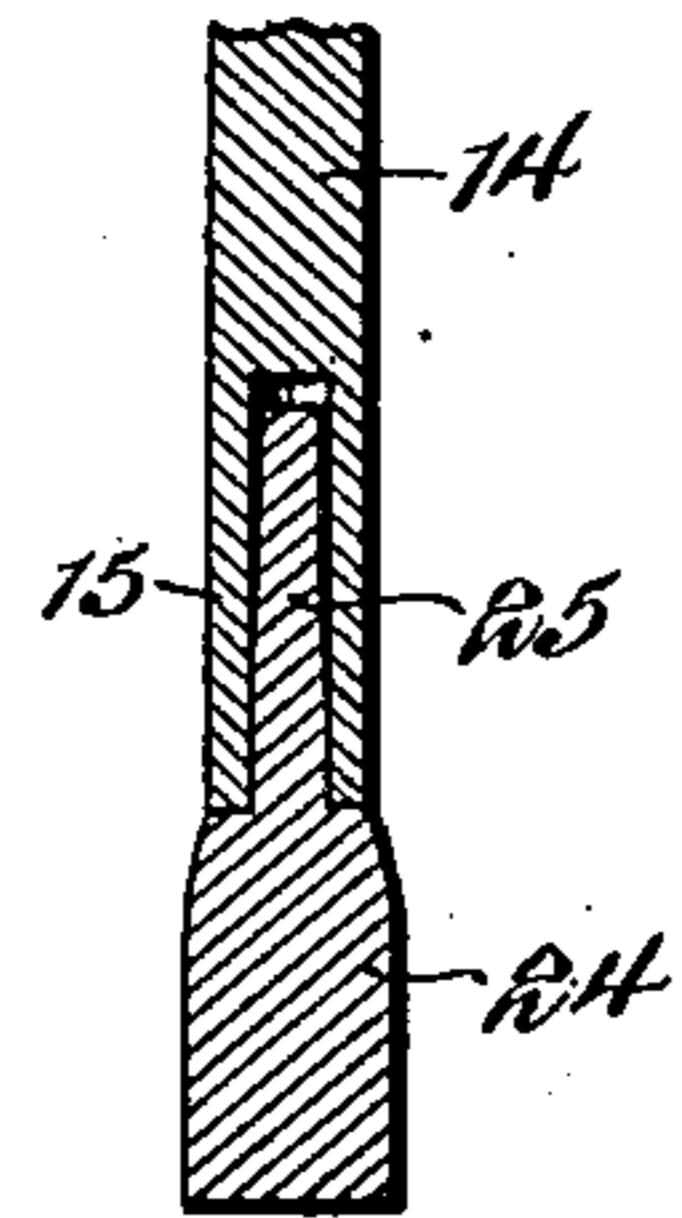
R. KIRKWOOD.  
GEM SETTING DEVICE.  
APPLICATION FILED MAR. 20, 1908.

919,596.

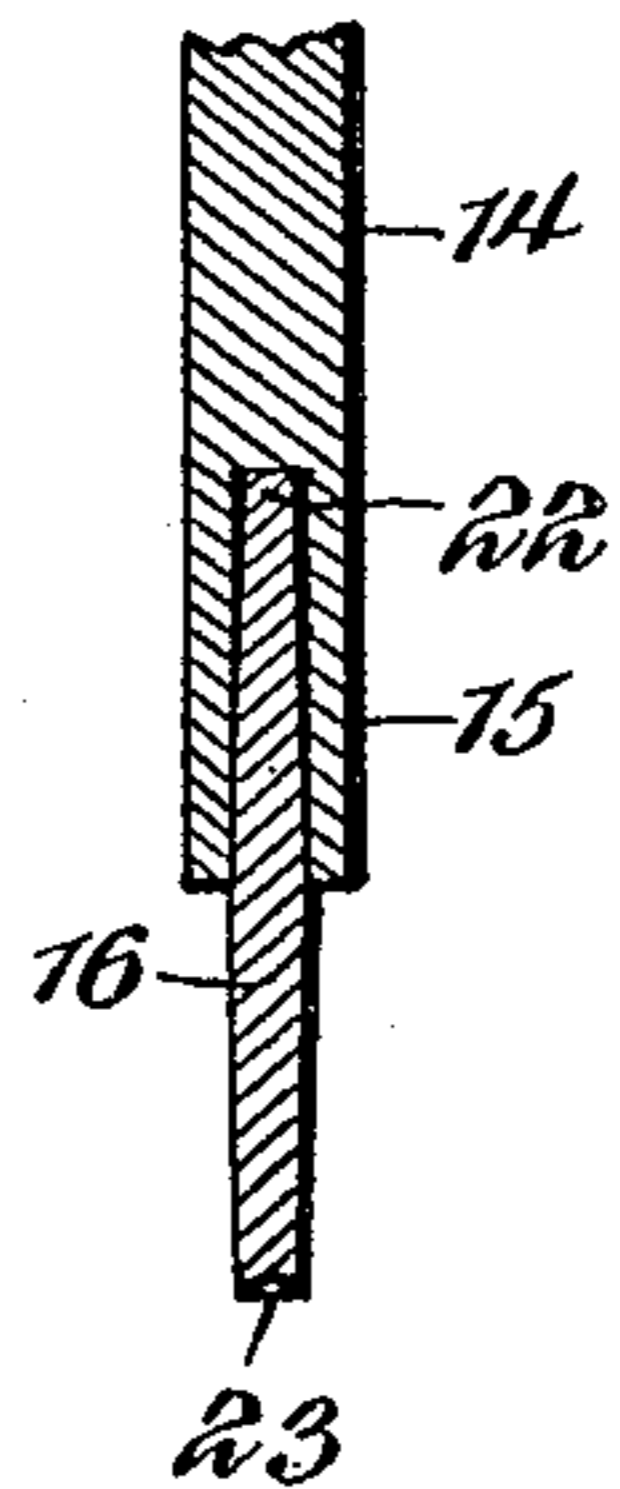
Patented Apr. 27, 1909.  
2 SHEETS—SHEET 1.



*Fig. 4.*



*Fig. 3.*



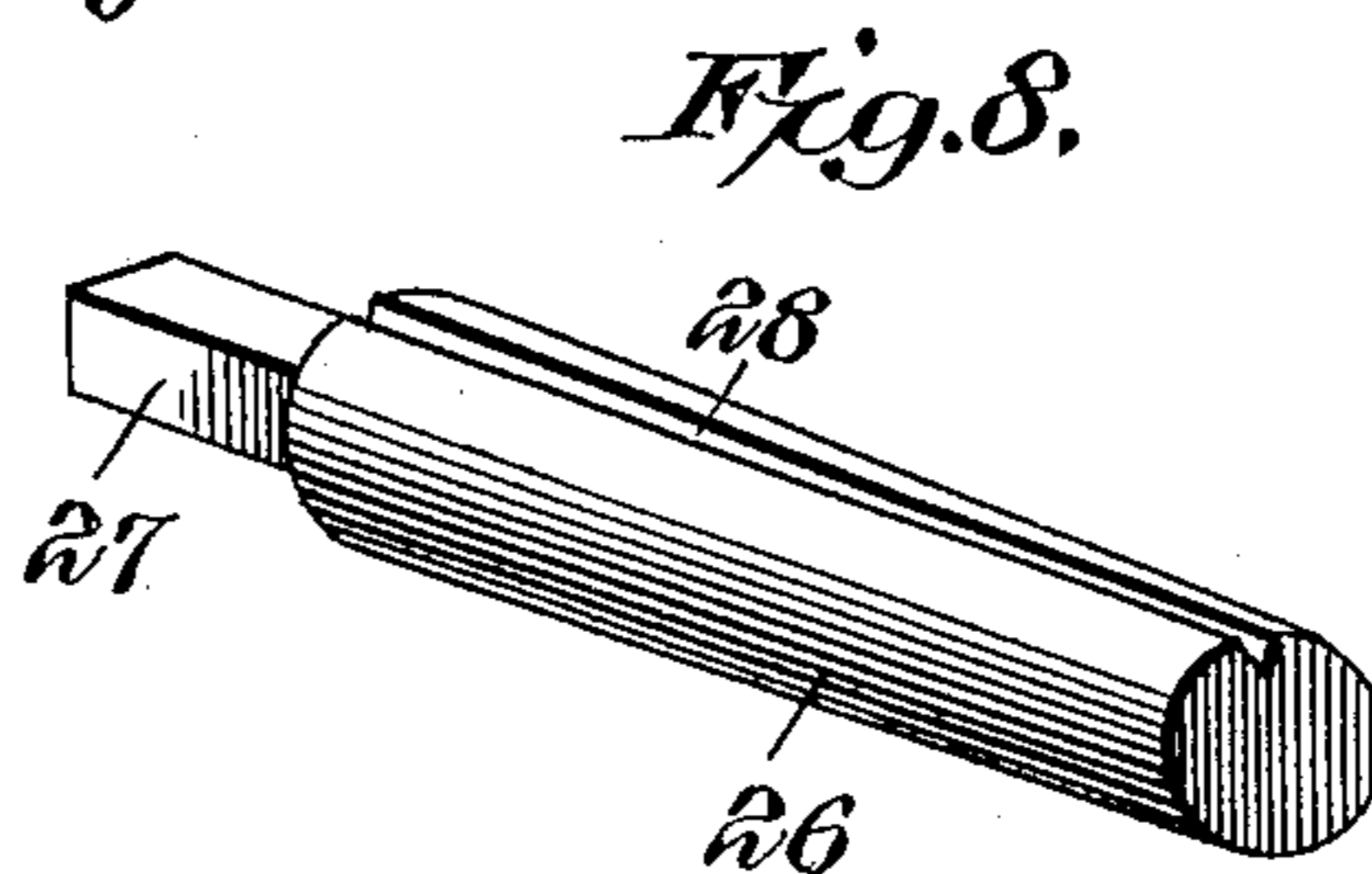
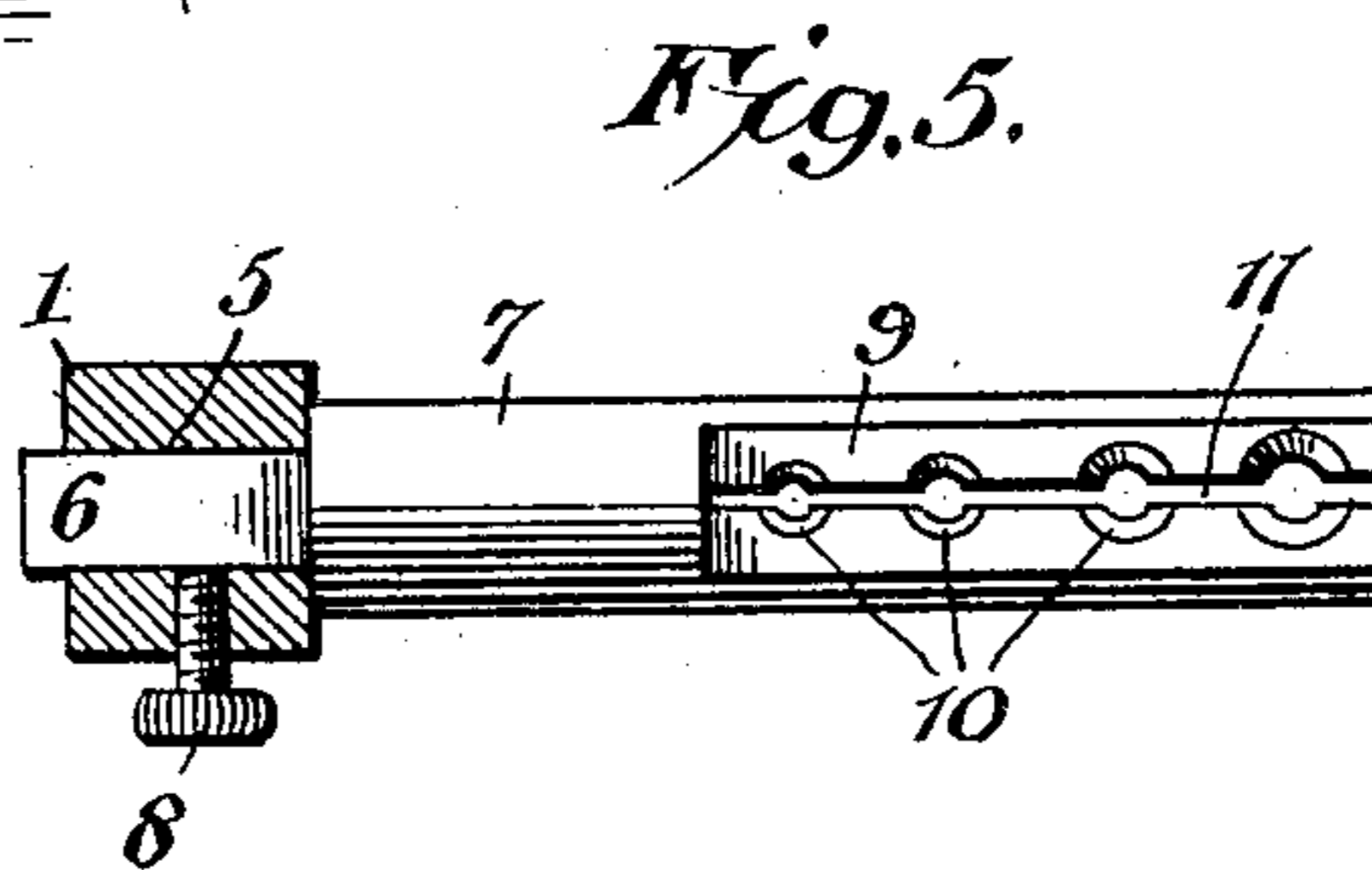
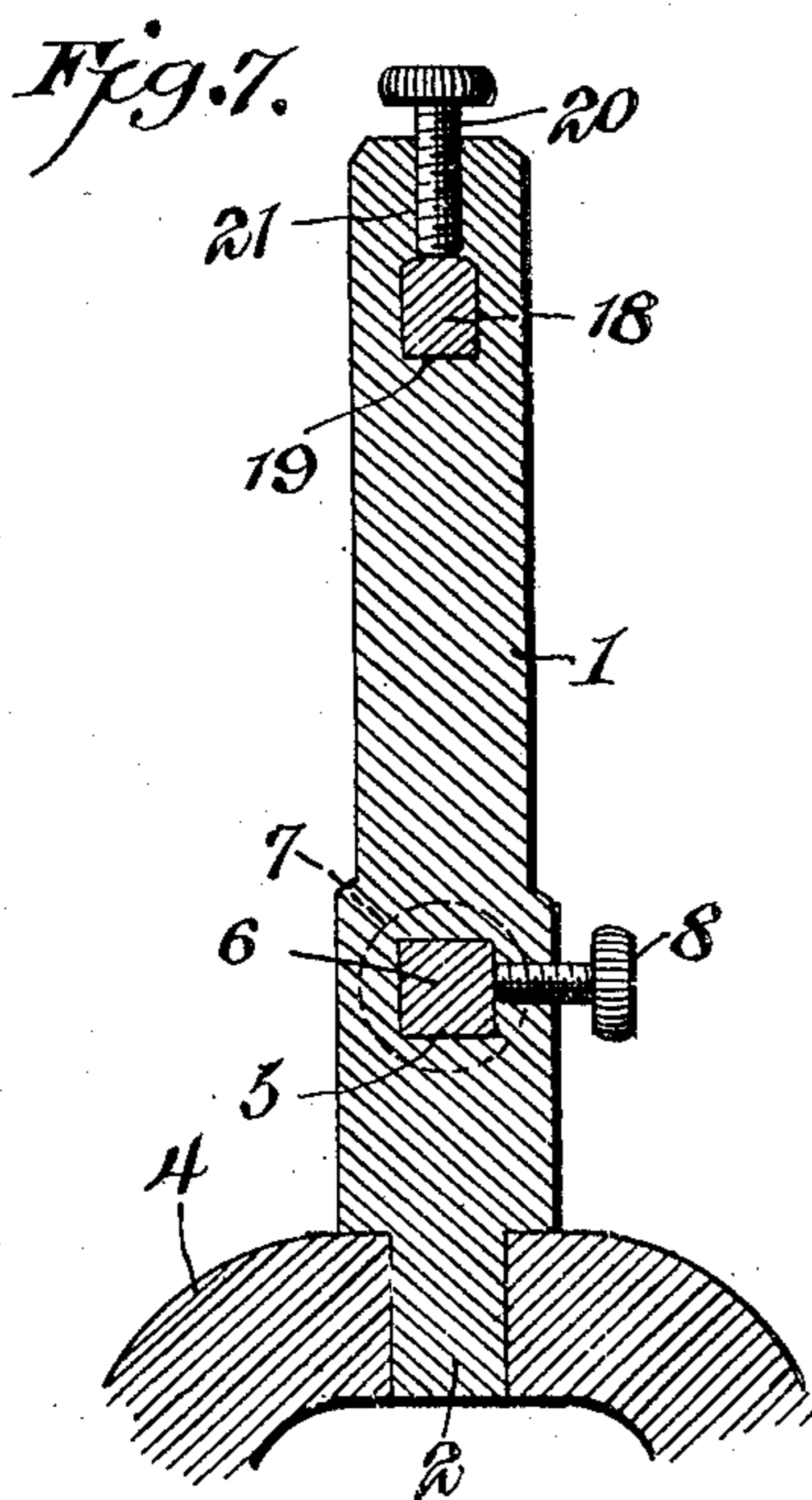
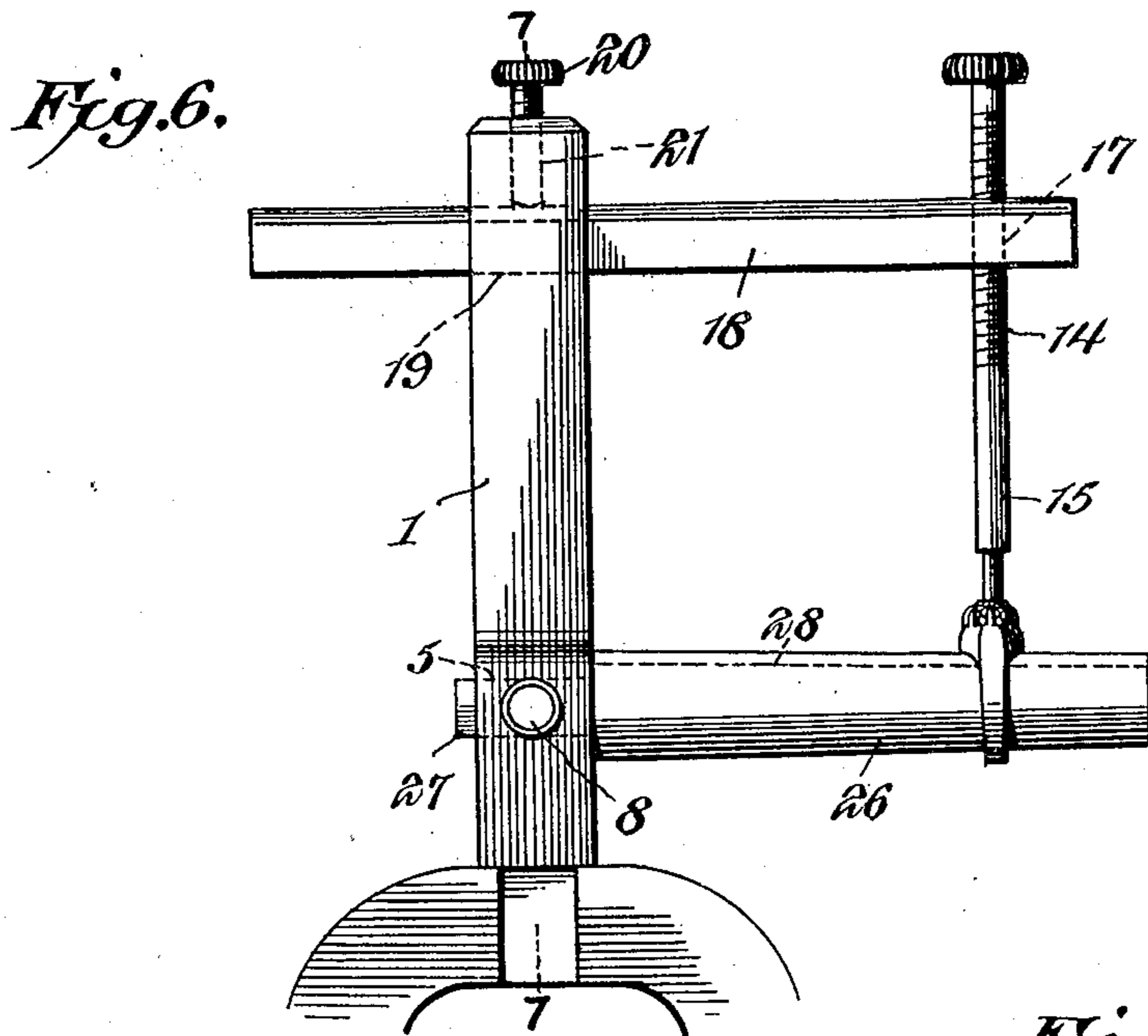
Witnesses  
Howard D. Orr.  
J. H. Pily

R. Kirkwood, Inventor,  
By *E. G. Siggers*  
Attorney

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2 SHEETS—SHEET 2.



Witnesses

Howard D. Orr.  
J. F. Riley

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# UNITED STATES PATENT OFFICE.

RAMEY KIRKWOOD, OF SCRANTON, MISSISSIPPI.

## GEM-SETTING DEVICE.

No. 919,596.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed March 20, 1908. Serial No. 422,340.

*To all whom it may concern:*

Be it known that I, RAMEY KIRKWOOD, a citizen of the United States, residing at Scranton, in the county of Jackson and State of Mississippi, have invented a new and useful Gem-Setting Device, of which the following is a specification.

The invention relates to improvements in gem setting devices.

10 The object of the present invention is to improve the construction of gem setting devices, and to provide a simple, inexpensive and efficient gem setting device, adapted to clamp and securely hold gems of different 15 forms and sizes in settings, while the prongs thereof are bent into engagement with the facets of the gem.

20 A further object of the invention is to provide a gem setting device of this character, adapted to be readily arranged to support a ring or stud, ear ring, or other setting, and to clamp gems having either flat or round surfaces.

25 With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended; it being understood that 30 various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

35 In the drawings:—Figure 1 is a perspective view of a gem setting device, constructed in accordance with this invention and arranged for clamping a gem in a stud or analogous setting. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 40 is a detail sectional view, illustrating the construction of the movable reversible gem engaging point or member. Fig. 4 is a detail sectional view, illustrating the modification of the gem engaging point or member. Fig. 5 is a horizontal sectional view, illustrating the manner of mounting the mandrel or setting support. Fig. 6 is a side elevation 50 of the gem setting device, illustrating another form of the mandrel or setting support. Fig. 7 is a vertical sectional view on the line 7—7 of Fig. 6. Fig. 8 is a detail perspective view of the mandrel or setting support, shown in Fig. 6.

55 Like numerals of reference designate cor-

responding parts in all the figures of the drawings.

1 designates a vertical post having a lower reduced end 2, and designed to be clamped between the jaws of a vise 4, but any other 60 suitable means may be employed for mounting the gem setter in position for operation. The post is provided in its lower portion with a horizontal opening 5 for the reception of a reduced end or shank 6 of a mandrel or set- 65 ting support 7, which is adjustably secured to the post by means of a set screw 8. The shank or end is squared, and the lower opening of the post is rectangular to permit the mandrel 7 to be reversed to present either 70 its upper or lower face at the top.

The mandrel 7, which is hollow, has flat upper and lower faces 9, each provided at intervals with concave seats 10, which are intersected by a longitudinal slot 11. The 75 concave seats, which consist of beveled or counter-sunk openings, are adapted, as illustrated in Fig. 2 of the drawings, to receive and support a stud setting 12, but the mandrel is adapted for holding ear ring settings, 80 scarf pin settings and the like, as will be readily understood. The seats vary in diameter, the upper and lower series being provided for enabling a comparatively large range of adjustment to be afforded by the gem 85 setting device. The slot 11 permits the setting to be moved inwardly and outwardly from one side to another, and the bore or opening of the hollow mandrel receives the spiral or screw of a stud setting, or the shank 90 portion of an ear ring setting or the pin of a scarf pin setting.

The gem or stone 13 is clamped in the setting by means of a vertically adjustable clamping screw 14, having a hollow lower portion 15, forming a socket for the reception of 95 a removable reversible gem engaging point or member 16. The screw 14 is mounted in a threaded opening 17 of a horizontal arm 18, adjustably secured in an upper opening 19 of 100 the post by means of a set screw 20. The arm 18 is preferably polygonal to hold it against rotary movement, and the post is provided at its upper end with a vertical threaded perforation 21, communicating 105 with the vertical opening and receiving the set screw 20, which engages the adjustable arm 18.

The socket 15 is cylindrical, and the gem engaging point or member, which is oppo- 110

sitely tapered, is adapted to have either terminal fitted in the socket of the screw, and it is equipped with flat and concave end faces 22 and 23 to enable it to engage either the flat or round face of a gem or stone. The upper arm 18 is adjustable inwardly and outwardly to arrange the clamping means in proper position with relation to the setting and the gem, and when the screw is adjusted to engage the stone or gem, the latter is securely held in proper position, while the prongs of the setting are engaged with the facets of the gem.

In Fig. 4 of the drawings is illustrated a modification of the gem engaging member, the gem engaging member 24 being composed of a relatively large lower body portion and a reduced shank 25, which is removably fitted in the socket of the clamping screw. The lower end of the member 24 is flat, but may be of any other configuration, as will be readily understood.

In Figs. 6 and 8 of the drawings is illustrated a ring receiving mandrel 26, provided with a squared shank 27 to fit the lower opening 5 of the post and secured in the same by the lower set screw 8. The ring receiving mandrel is tapered to fit rings of different sizes, and in practice, the device will be equipped with a plurality of such mandrels to suit the various sizes of finger rings. The mandrel 26, which is provided with a longitudinal groove 28, may be readily substituted for the mandrel 7, when desired. The groove is arranged to receive the projecting points of the gems to prevent the same from coming in contact with the ring mandrel, but the latter may be cut away in any other desired manner to enable the gems of the ring to clear the mandrel.

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

1. A gem setting device comprising a post having its lower end arranged to be clamped in a vise, a detachable mandrel extending from the post and constructed and arranged to receive settings of different sizes, an arm located above the mandrel and adjustably mounted on the post, and a gem-engaging clamping screw mounted on the arm and carried by the same in the adjustment there-

of to arrange the said clamping screw at different points along the mandrel.

2. A gem setting device comprising a post, a mandrel extending horizontally from the post and constructed and arranged to receive settings of different sizes, a horizontal arm located above the mandrel and adjustably mounted on the post, and a gem engaging clamping screw mounted on the arm and carried by the same in the adjustment thereof to arrange the said clamping screw at different points along the mandrel.

3. A gem setting device including a hollow mandrel provided at intervals with setting receiving seats, and means cooperating with the mandrel for clamping a gem in a setting.

4. A gem setting device including a hollow mandrel provided at intervals with setting receiving seats of different sizes and having a slot connecting the seats, and means cooperating with the mandrel for clamping a gem in a setting.

5. A gem setting device including a hollow mandrel having a flat face and provided therein with a series of setting receiving seats of different diameters, said mandrel being also provided with a slot connecting the seats, and means cooperating with the mandrel for clamping a gem in a setting.

6. A gem setting device including a hollow reversible mandrel provided with a plurality of flat faces and having setting receiving seats therein, said mandrel being also provided with slots connecting the seats, and means cooperating with the mandrel for clamping a gem in a setting.

7. A gem setting device including a hollow mandrel having a flat face and provided therein with a tapered or counter-sunk seat adapted to receive a setting, said mandrel being also provided with a slot intersecting the seat, and means cooperating with the mandrel for holding a gem in a setting.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

RAMEY KIRKWOOD.

Witnesses:

J. J. TOMASIEP,  
HY. JACOBS.