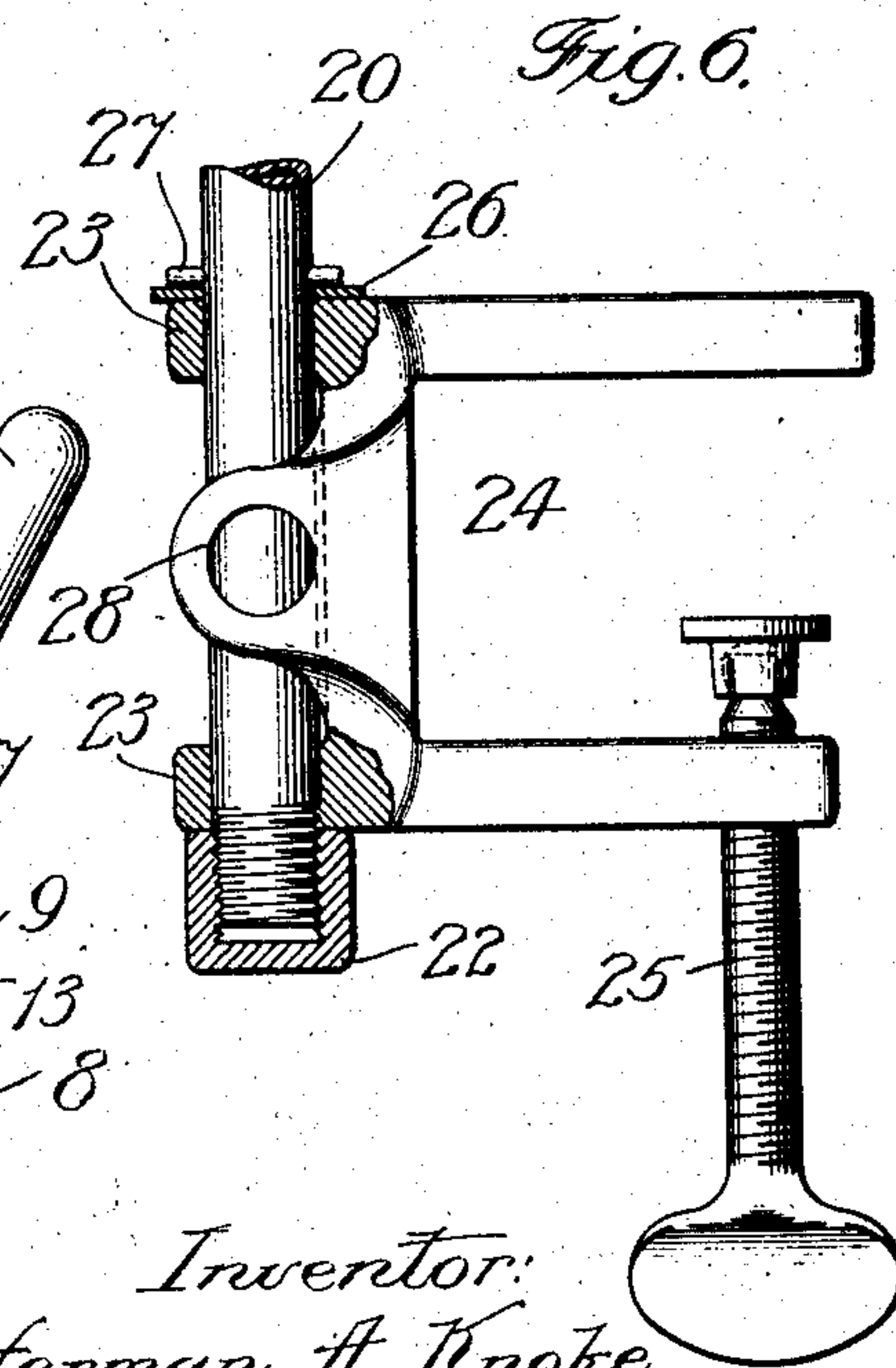
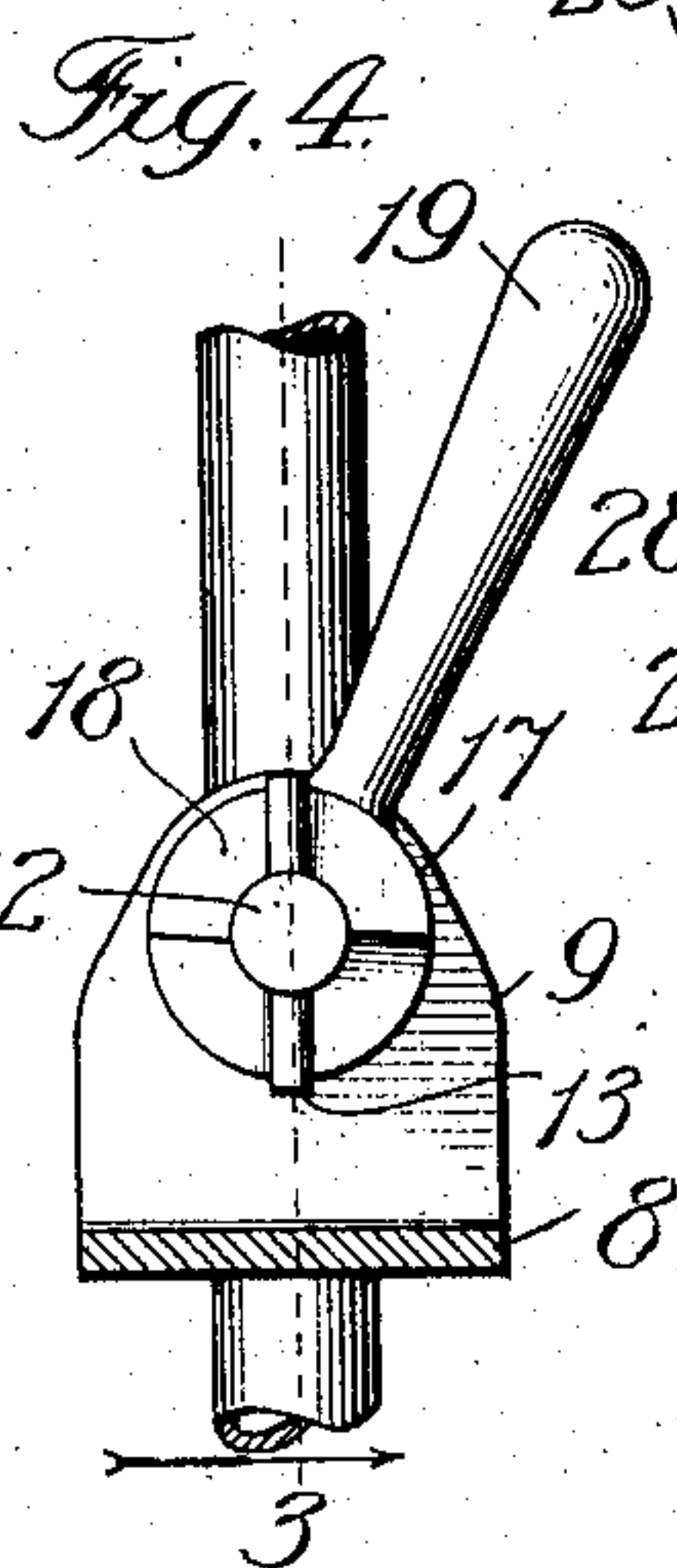
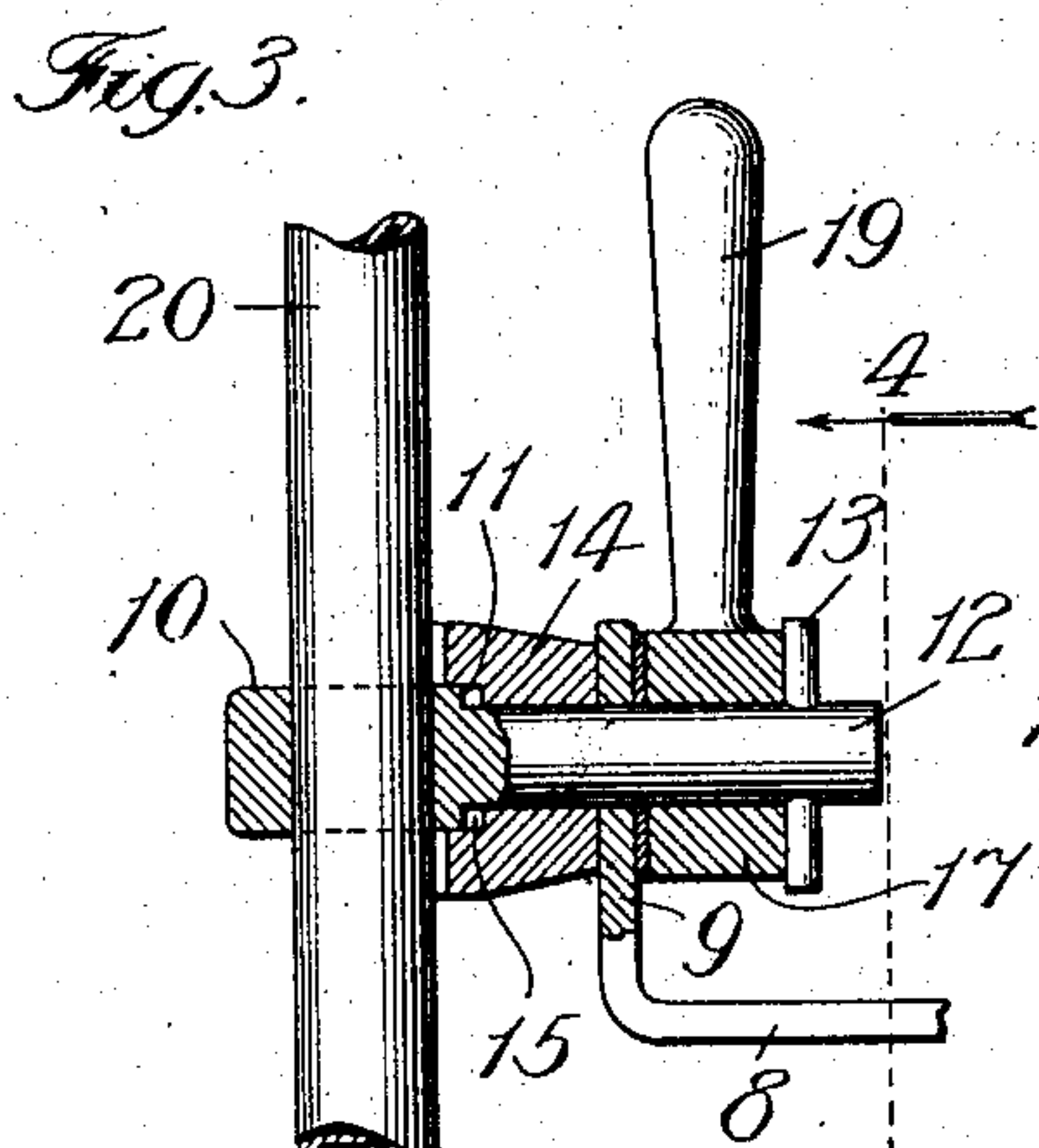
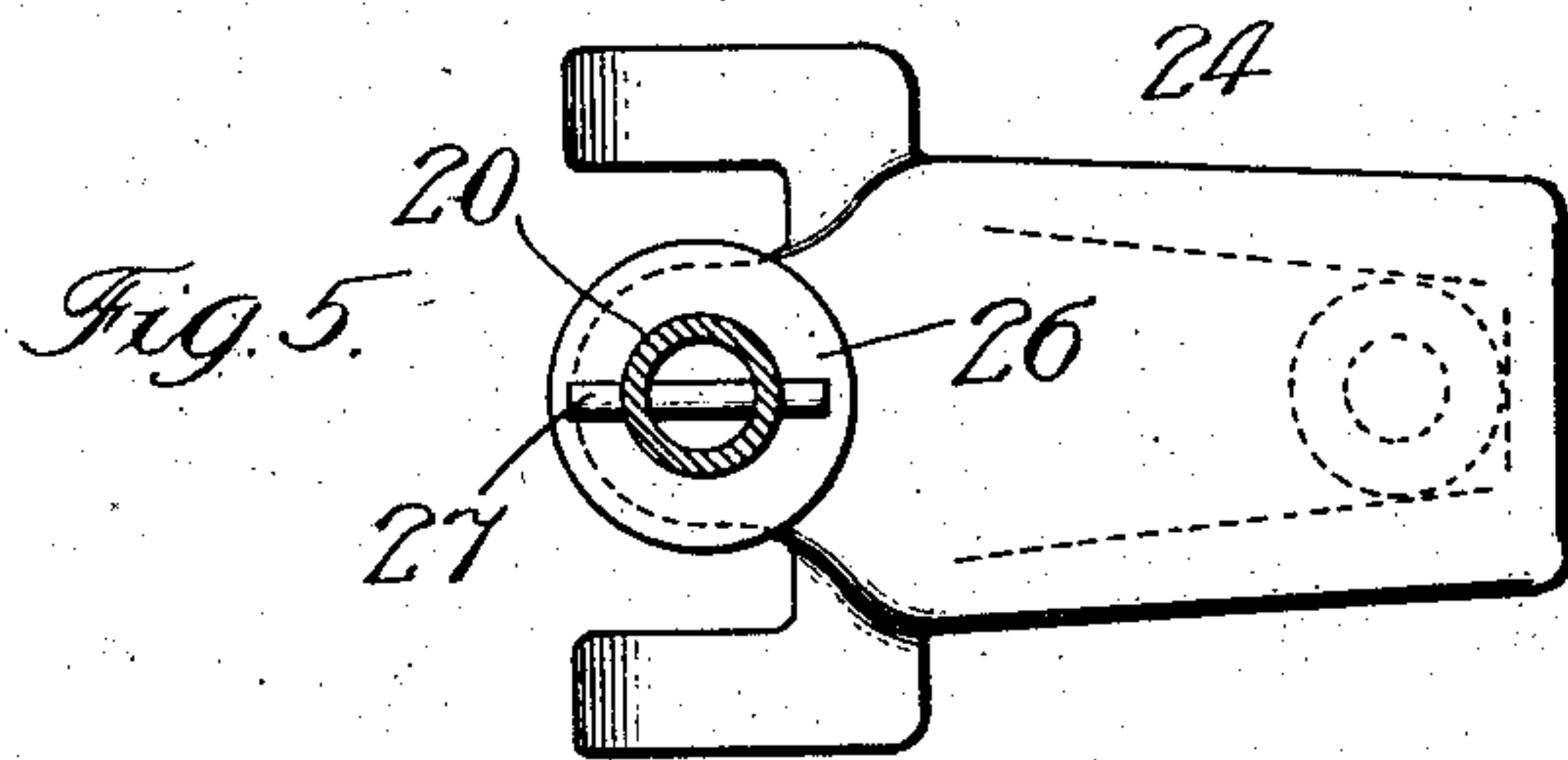
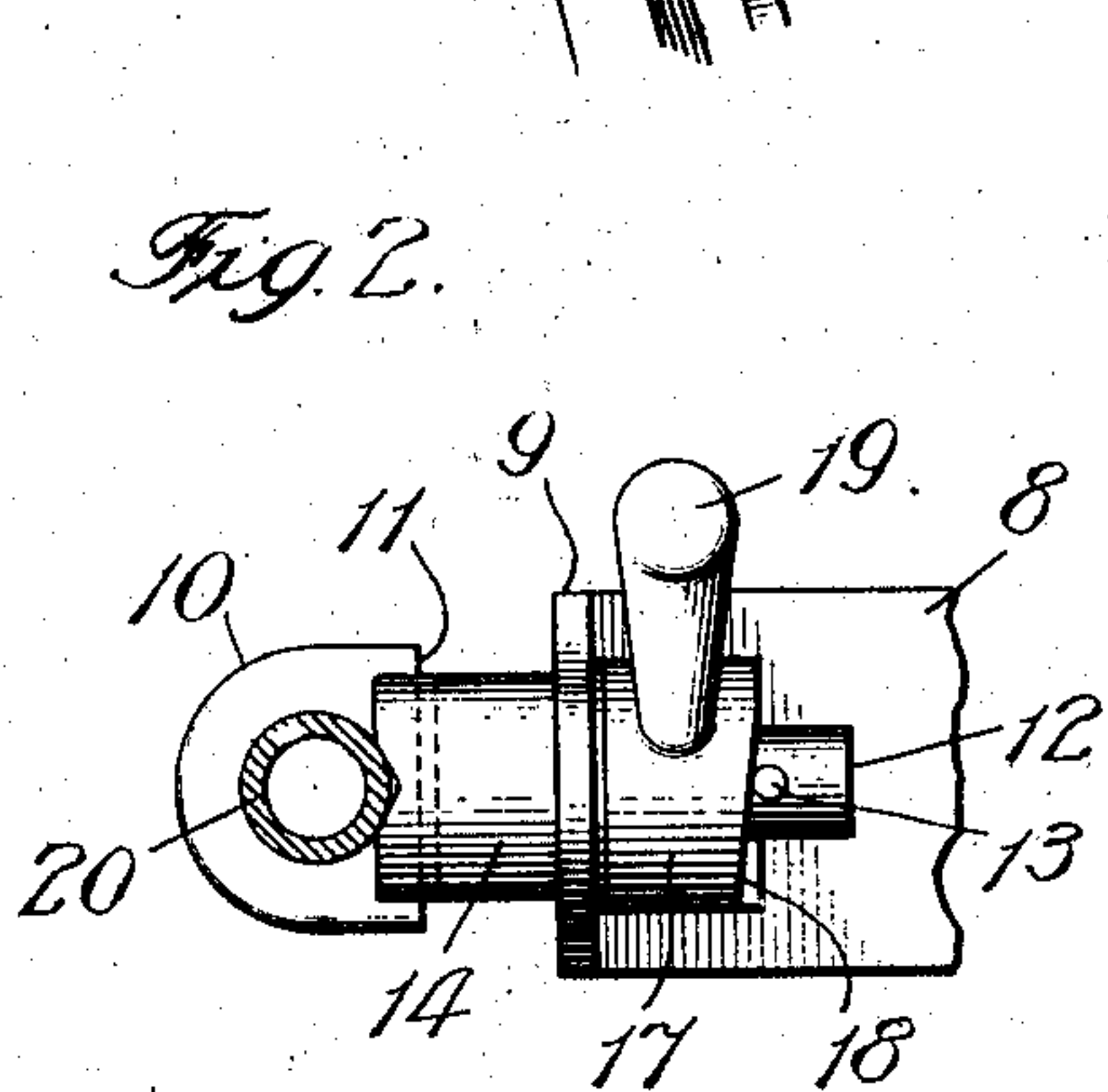
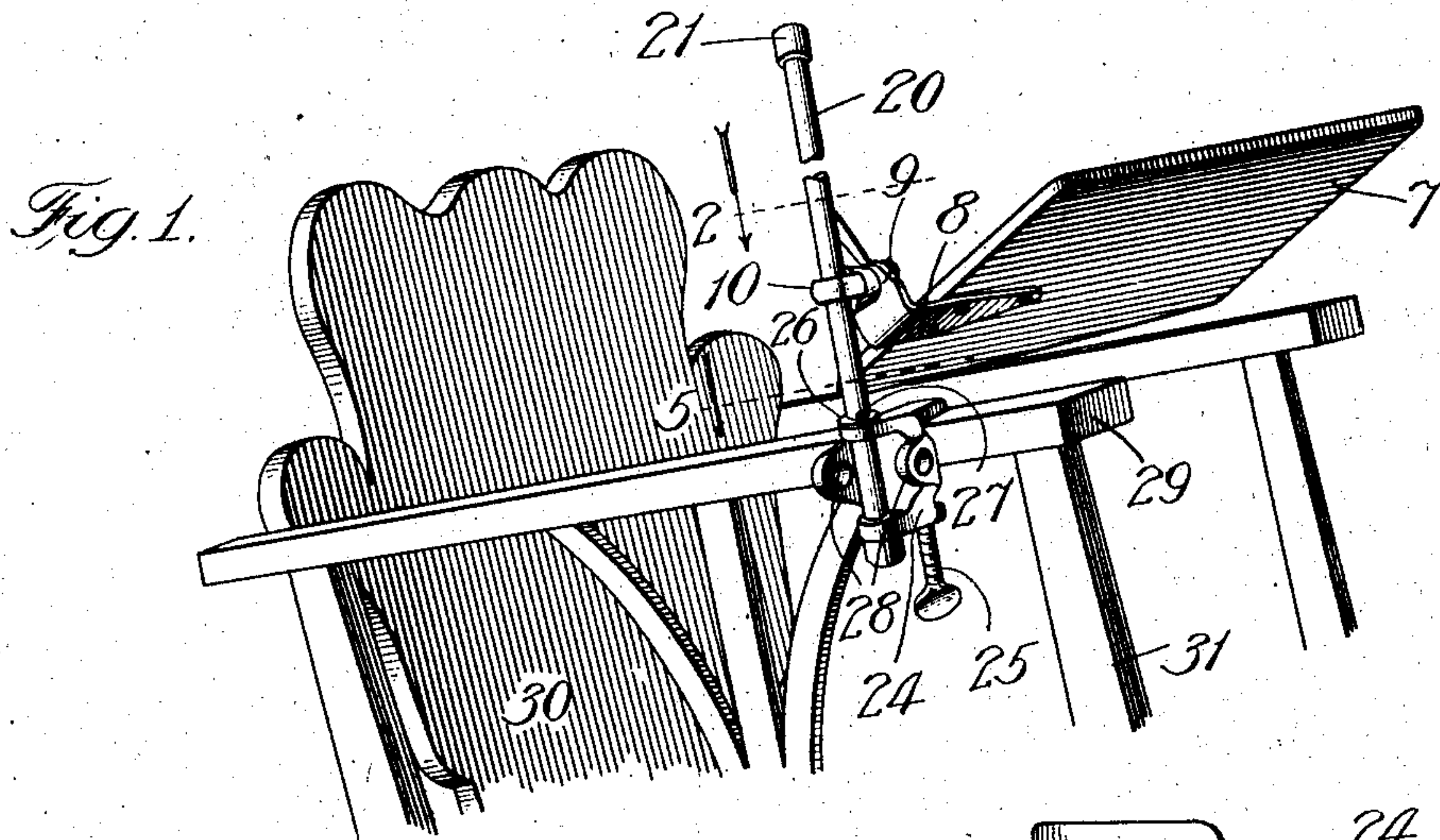


H. A. KNOKE.
DESK ATTACHMENT FOR CHAIRS.
APPLICATION FILED DEC. 1, 1910.

994,410.

Patented June 6, 1911.



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UNITED STATES PATENT OFFICE.

HERMAN A. KNOKE, OF CHICAGO, ILLINOIS.

DESK ATTACHMENT FOR CHAIRS.

994,410.

Specification of Letters Patent.

Patented June 6, 1911.

Application filed December 1, 1910. Serial No. 595,009.

To all whom it may concern:

Be it known that I, HERMAN A. KNOKE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Desk Attachments for Chairs, of which the following is a specification.

My invention relates to an improvement in the class of desks or tables which are equipped with means for readily attaching them to chairs and permitting them, when so attached, to be conveniently adjusted to desired height and angle and turned out of the way of obstructing access to or rising from the chair-seat.

In the accompanying drawing, Figure 1 is a broken perspective view of a chair shown with my improved device attached to one of its arms; Fig. 2 is an enlarged broken section of the attaching means on line 2, Fig. 1; Fig. 3 is a similar view of the same on line 3, Fig. 4, and Fig. 4 is a similar view of the same on line 4, Fig. 3; Fig. 5 is an enlarged broken section of the attaching means on line 5, Fig. 1, and Fig. 6 is an enlarged view in broken sectional elevation of the lower jaw portion of the attaching means.

The table or desk 7 is rigidly fastened at one end of its under side to an arm 8 having its outer end bent to extend at a right-angle and perforated to form a bearing 9. An annular head 10 provided with a straight face 11 carries a stem 12 extending from that face to pass through the bearing 9, and provided with a pin 13 which extends transversely through its end-portion for the purpose hereinafter explained. On the stem is confined, between the bearing and the head 10, a sleeve 14 having a recess 15 in one end at which to embrace the head-face 11 and interlock with the head. A collar 17 is rotatably mounted on the stem to be confined between the bearing 9 and pin 13, to which it presents a cam-face 18; and the collar is provided with a handle 19. The head 10 surrounds a post 20 shown in the preferred form of a tube threaded at its ends for the application of a cap 21 to its upper end, as a finish, and a nut 22 to its lower end. The lower part of the post passes through parallel perforated ears 23, 23 on the back of a jaw 24, having a clamp-screw 25 working in the outer end of its lower arm or member. The jaw is secured in place by confining it

between the nut 22 and a washer 26 surrounding the post and engaged by a stop-pin 27 extending transversely through it. From the back of the jaw extend, parallel with each other, perforated ears 28, 28, like but at right-angles to the ears 23, to serve the purpose hereinafter described.

With the table 7 on the post it is releasably clamped thereto by manipulating the handle to turn the collar 17 for engaging the cam 18 with the pin 13, with the result of tightening the collar against the bearing 9 and the latter against the sleeve 14 to force the ends of the recessed face of the sleeve against the surface of the post and thereby rigidly support the table on the post. The post, with the table upon it and carrying the jaw 24, may be fastened to an arm 29 of a chair 30 by causing the jaw to embrace the chair-arm and fastening it by tightening the clamp-screw 25. With the table applied in the manner shown and described, it may, upon turning the handle to release the cam 18 from the pin 13 and thus free the parts controlled by the cam, be swung on the post out of the way of obstructing access to or rising from the chair-seat and be adjusted to any desired position by raising or lowering it on the post and tilting it to any suitable angle on the axis 12; and when so adjusted it may be tightened by properly turning the cam-roller 17.

The provision on the jaw of the second set of perforated ears 28 adapts the device to be attached to a chair-leg 31. For that purpose the nut 22 may be removed to permit the post to be withdrawn from the jaw-ears 23 and inserted through the ears 28, when the jaw is fastened in place by applying the nut. Thus the jaw is caused to extend at a right-angle to its first-named relative position, in which it is illustrated in Fig. 1, and is thereby adapted to be applied to the leg 31 in the manner described of applying it to a chair-arm. The manipulations for adjusting the table when thus supported on a chair-leg are the same as those described for adjusting it when supported on an arm of a chair.

What I claim as new and desire to secure by Letters Patent, is—

In combination, a desk, an arm secured to the desk and provided on its outer end with a bearing, a post, an annular head adjustably confined on the post and having a stem ex-

tending through said bearing for supporting the desk axially, a sleeve confined on the stem between one side of the bearing and the post and interlocking with the post, a pin
5 on the stem, a collar rotatably confined on the stem between said pin and bearing and provided with a cam-face engaging with said

pin, and supporting means on the post, for the purpose set forth.

HERMAN A. KNOKE.

In presence of—

JOHN WILSON,
R. A. SCHAEFER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
