

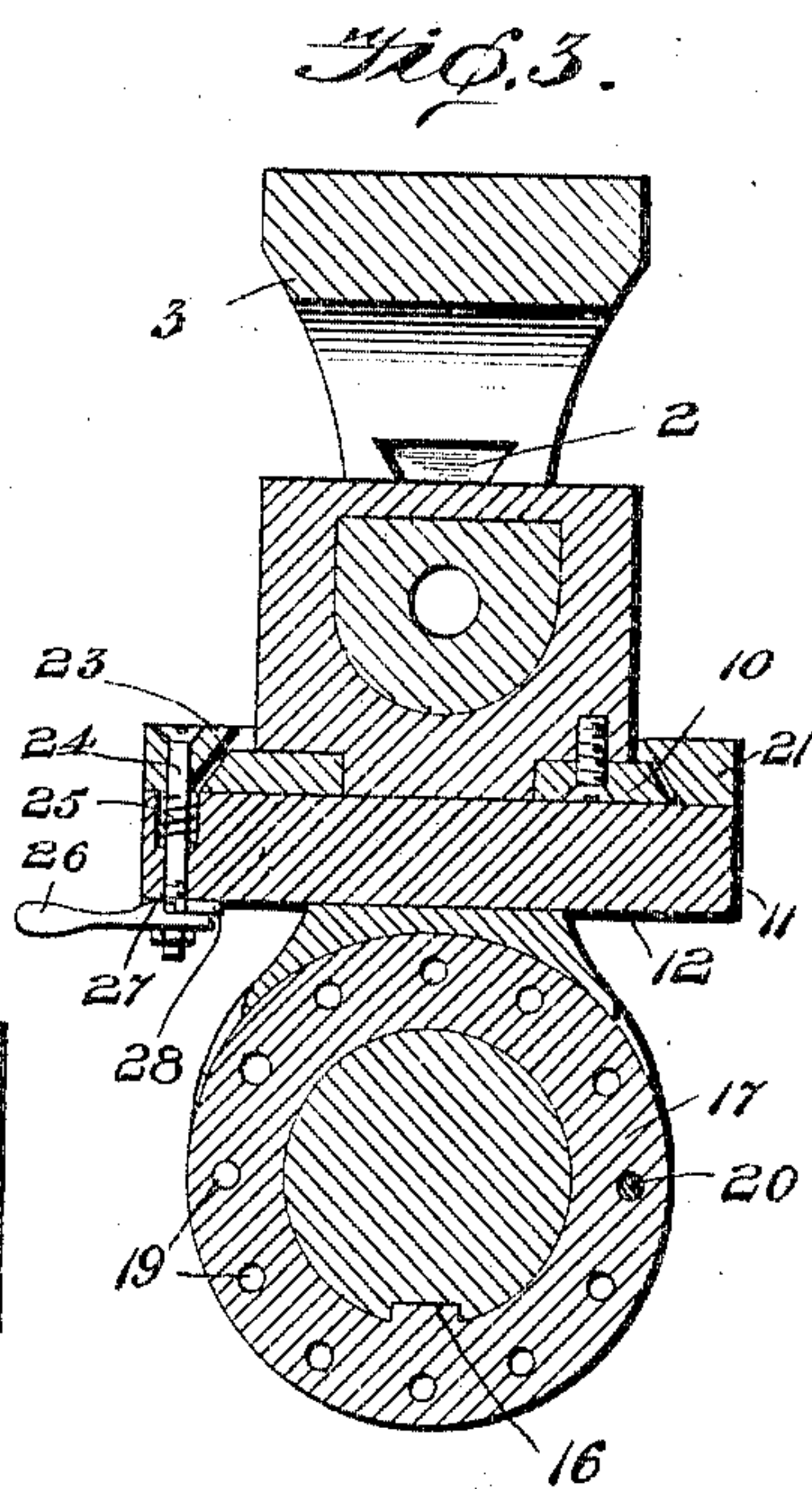
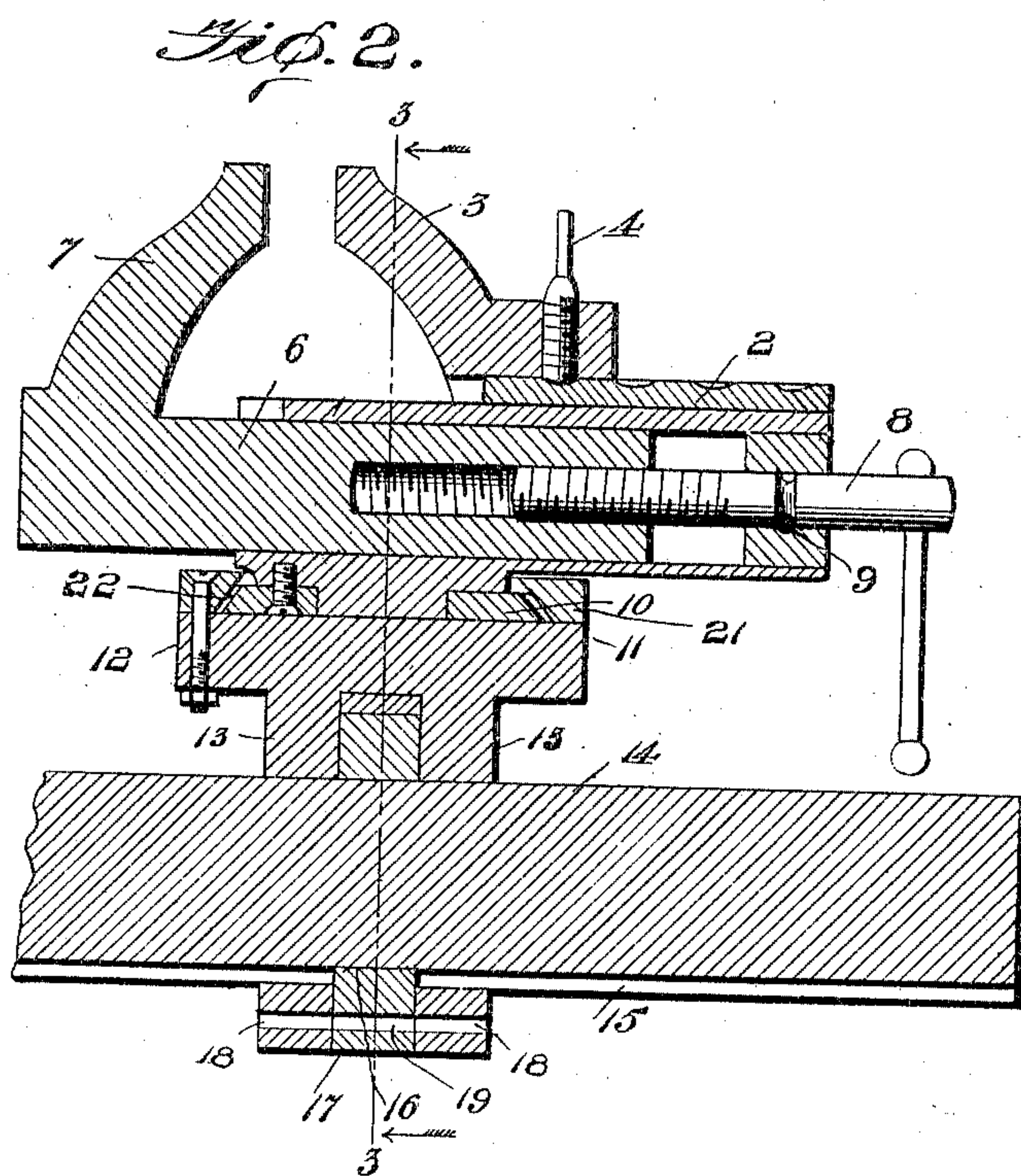
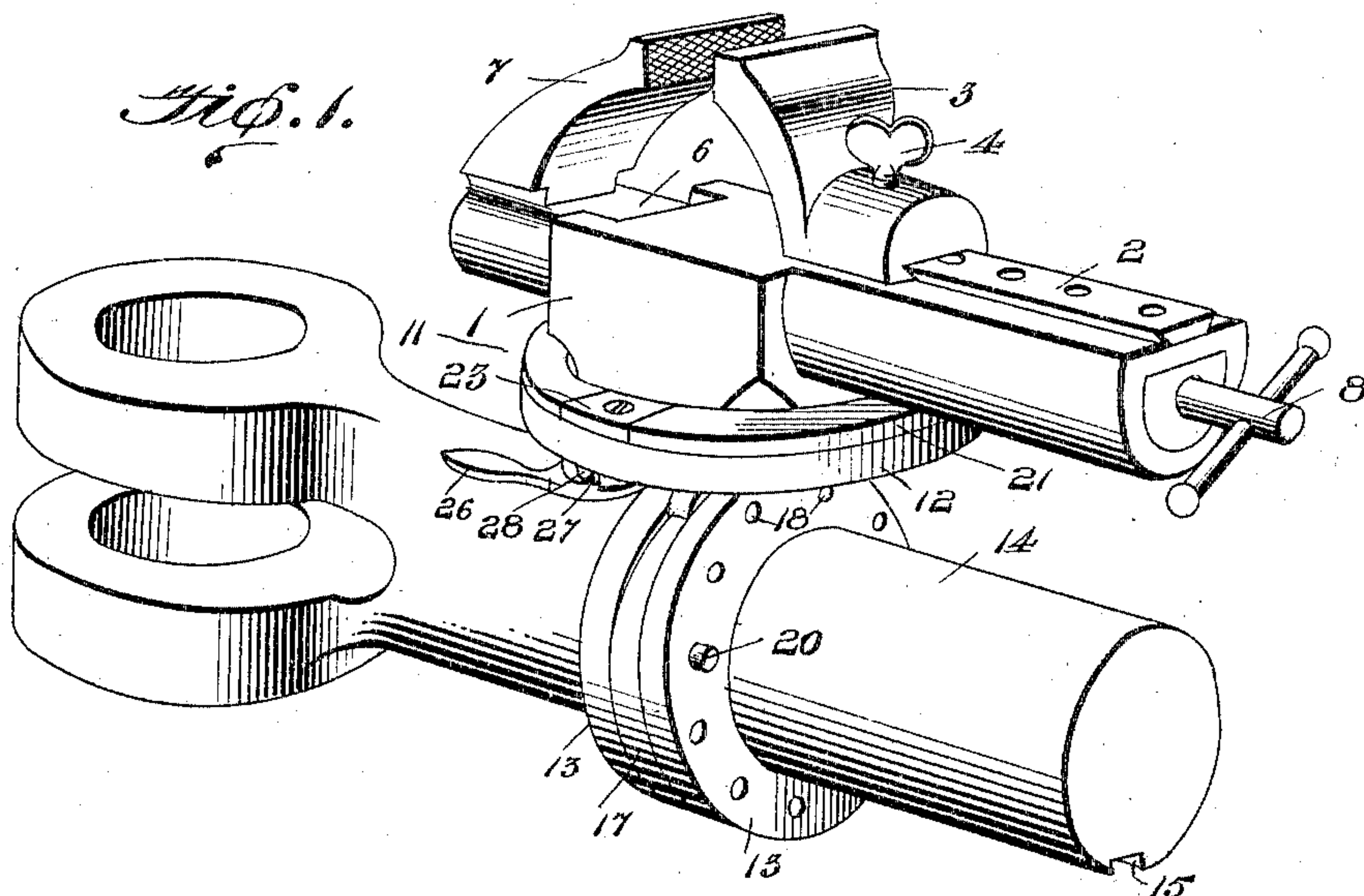
No. 776,553.

PATENTED DEC. 6, 1904.

J. C. SCOGGINS.
WORK HOLDER.

APPLICATION FILED JULY 6, 1904.

NO MODEL.



Witnesses
E. J. Stewart
D. J. Amore

Jesse C. Scoggins
Inventor
by *C. A. Snow & Co.*
Attorneys

UNITED STATES PATENT OFFICE.

JESSE C. SCOGGINS, OF ALVA, OKLAHOMA TERRITORY.

WORK-HOLDER.

SPECIFICATION forming part of Letters Patent No. 776,553, dated December 6, 1904.

Application filed July 6, 1904. Serial No. 215,502. (No model.)

To all whom it may concern:

Be it known that I, JESSE C. SCOGGINS, a citizen of the United States, residing at Alva, in the county of Woods, Oklahoma Territory, have invented a new and useful Work-Holder, of which the following is a specification.

My invention relates to work-holders, and has for its objects to produce a comparatively simple inexpensive device of this character which will be strong, durable, and efficient in operation and one having a wide range of adjustments, thereby facilitating its adaptation to various classes of work and particularly to supporting work beneath a drill during the drilling operation.

With these and other objects in view the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a perspective view of a vise embodying the invention. Fig. 2 is a vertical longitudinal section. Fig. 3 is a vertical transverse section on the line 3-3 of Fig. 2.

Referring to the drawings, 1 designates a vise-head, preferably of the form herein shown and having upon its upper face a longitudinally-disposed guide rib or projection 2, with which the normally fixed jaw 3 is in dovetailed engagement, adapting it for adjustment longitudinally of the head, the jaw being fixed in its adjusted position by a vertical set-screw 4, designed to engage at its inner end with suitable spaced seats provided in the upper face of the guide 2.

The head has a substantially semicircular tubular portion through which extends a longitudinally-movable shank 6 of similar cross-sectional form and carrying at its outer end the movable jaw 7, there being extended into and in threaded engagement with the shank an operating-screw 8, adapted for manipulation, as usual, to adjust the jaw 7 relative to the jaw 3, the screw being held against longitudinal movement by means of a pin 9, extending transversely through the tubular portion of the head in engagement with a marginal groove in the screw.

Fixed upon the inner face of the head 1 is

a circular disk 10, constituting the relatively movable member of a turn-table 11, the relatively fixed member or disk 12 of which has upon its inner face a pair of spaced attaching members or rings 13, designed to loosely embrace a supporting arm or member 14, of circular form in cross-section. The arm is provided with a longitudinal groove 15, adapted to receive a spline or feather 16, projecting inwardly from a retaining ring or member 17, embracing the arm 14 and disposed between the attaching members or rings 13, there being provided circumferentially around the rings 13 a series of perforations or seats 18, arranged at suitably-spaced intervals and designed to register with corresponding openings 19, provided in the ring 17 for the reception of a pin or key 20. It is to be observed that the ring 17 is adapted for adjustment longitudinally of, but is fixed against rotation upon, the arm and that by means of the key 20 the rings 13 may be fixed to and held by the ring 17 against rotation, it being apparent that in this arrangement by removing the key the device as a whole may be rotated upon the arm and brought to any desired angle.

The members of the turn-table are coupled by means of a split coupling member or ring 21, bolted to the fixed member 12 and bearing upon the outer face of the movable member or disk 10, which adjacent to its marginal edge is downwardly and outwardly beveled and provided with teeth 22, designed for engagement by corresponding teeth provided on the inner face of a clamping member or block 23, carried by a stem 24, extended through the disk 12, there being mounted upon the stem a spring 25, tending to press the block normally to releasing position.

Fixed upon the stem 24 is an operating-handle 26, having a pair of reversely-inclined cam-faces 27, which bear upon lugs or projections 28, attached to the disk 12, and act when the handle is turned in the proper direction to draw the clamping member or block 23 inward to engaging position and against the action of the spring 25. It is evident from this arrangement that the turn-table permits of the vise-head being freely rotated

to lie either longitudinally or transversely of the supporting-arm and that after being brought to the desired adjustment it may be securely locked against further rotation by means of the clamping member or block 23.

From the foregoing it is apparent that I produce a comparatively simple device in which the vise-head is susceptible of practically universal movement, thereby adapting it for a wide range of adjustments in handling various classes of work and rendering it exceedingly efficient in operation, it being understood that in attaining these ends various changes in the details of construction herein set forth may be resorted to without departing from the spirit of the invention.

Having thus described the invention, what is claimed is—

1. In a device of the class described, a supporting-arm of circular form in cross-section, a retaining member arranged for movement longitudinally of the arm, means for fixing the member against rotation, a vise provided with an attaching member adapted for rota-

tion upon the arm, and means for locking the attaching to the retaining member to prevent rotation of the former.

2. In a device of the class described, a supporting-arm of circular form in cross-section having a longitudinal groove, a retaining member arranged for movement longitudinally of the arm and having a feather engaging the groove to fix the member against rotation, a vise having an attaching member adapted for rotation upon the arm, said attaching and retaining members being provided with perforations adapted to register, and a key for insertion in the perforations to fix the attaching member for non-rotation with the retaining member.

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

JESSE C. SCOGGINS.

Witnesses:

LIDA WAGNER,
L. W. MOORE.