

No. 617,358.

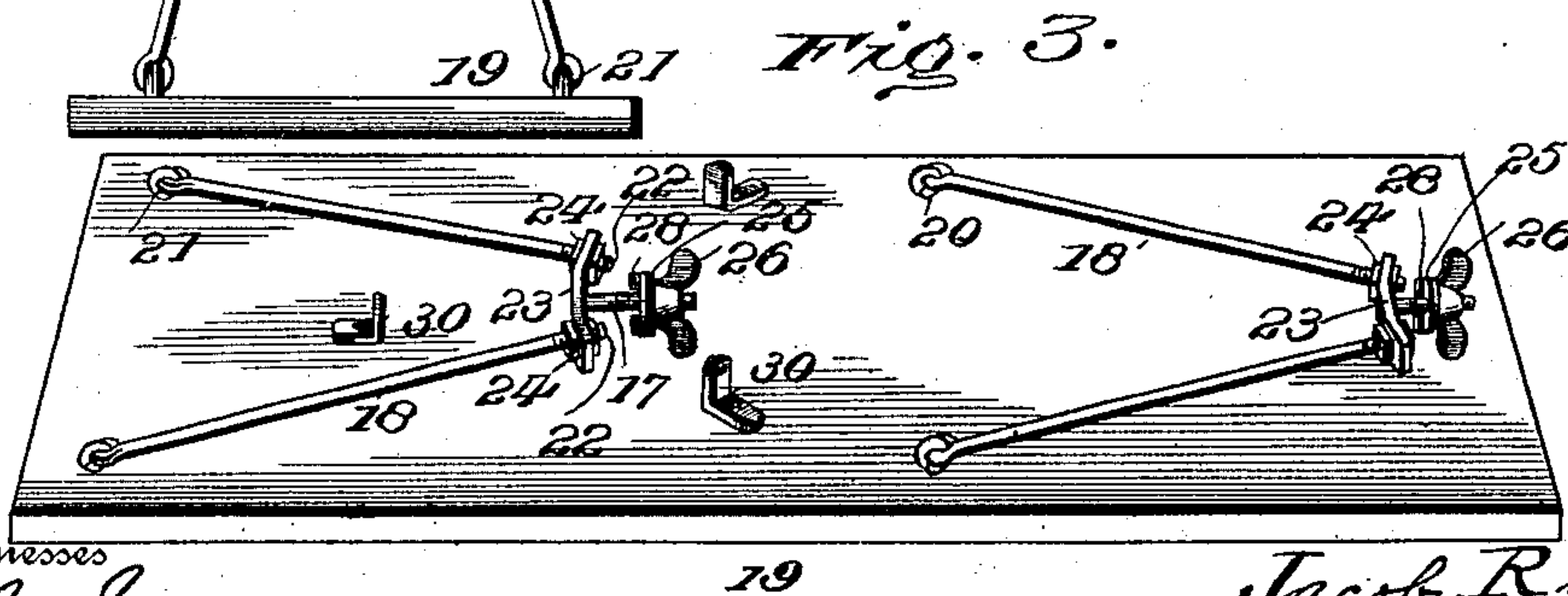
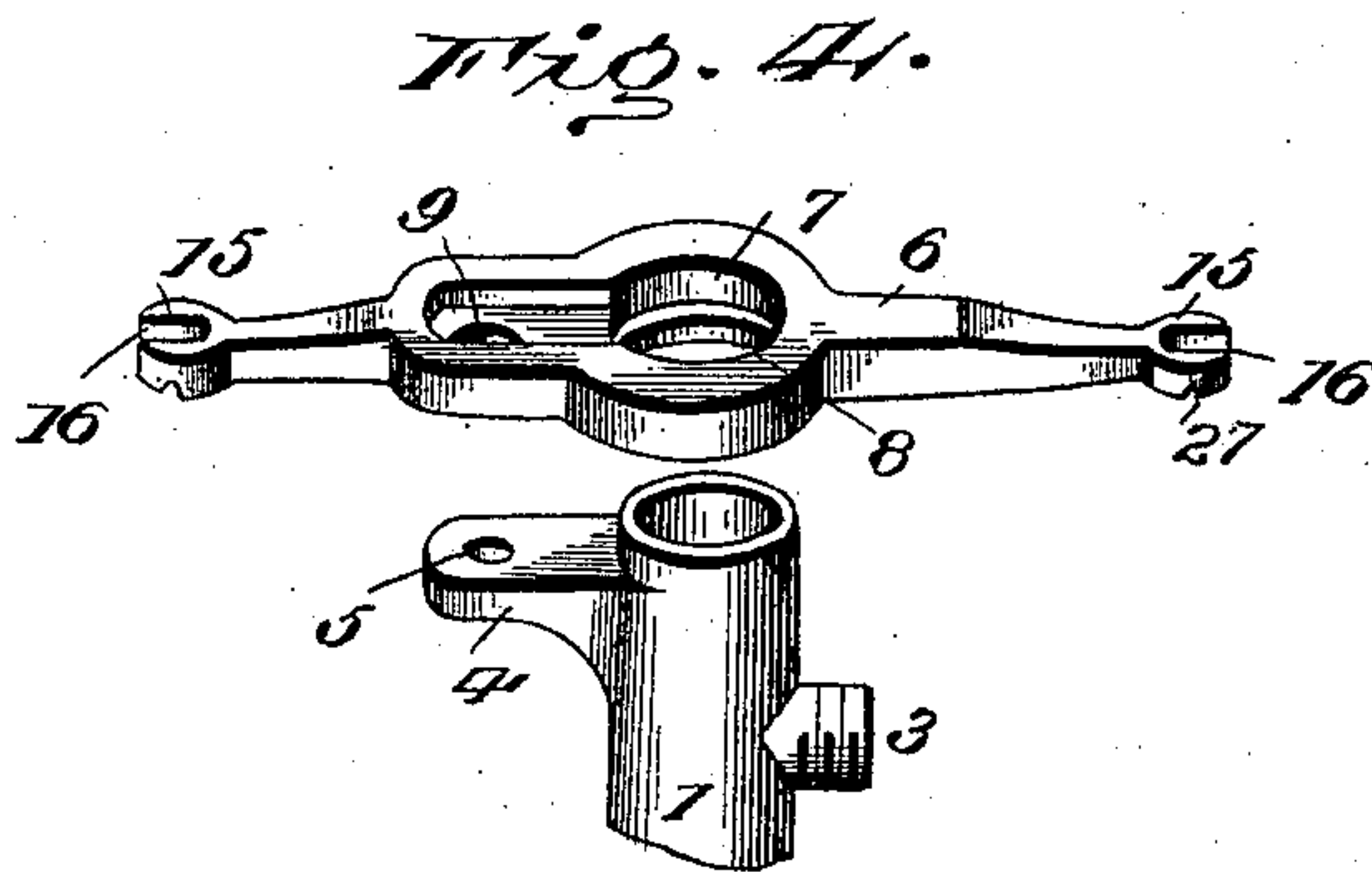
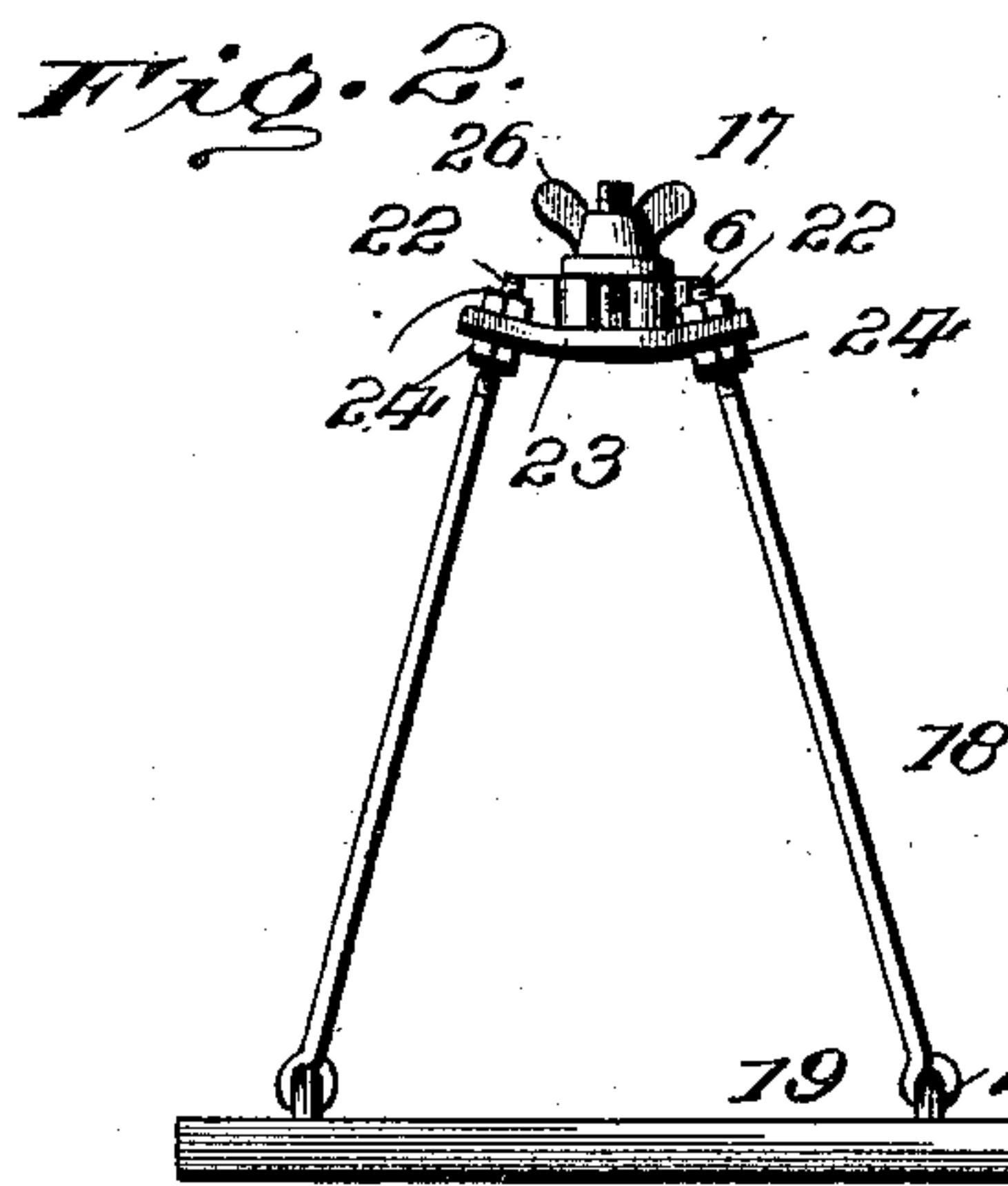
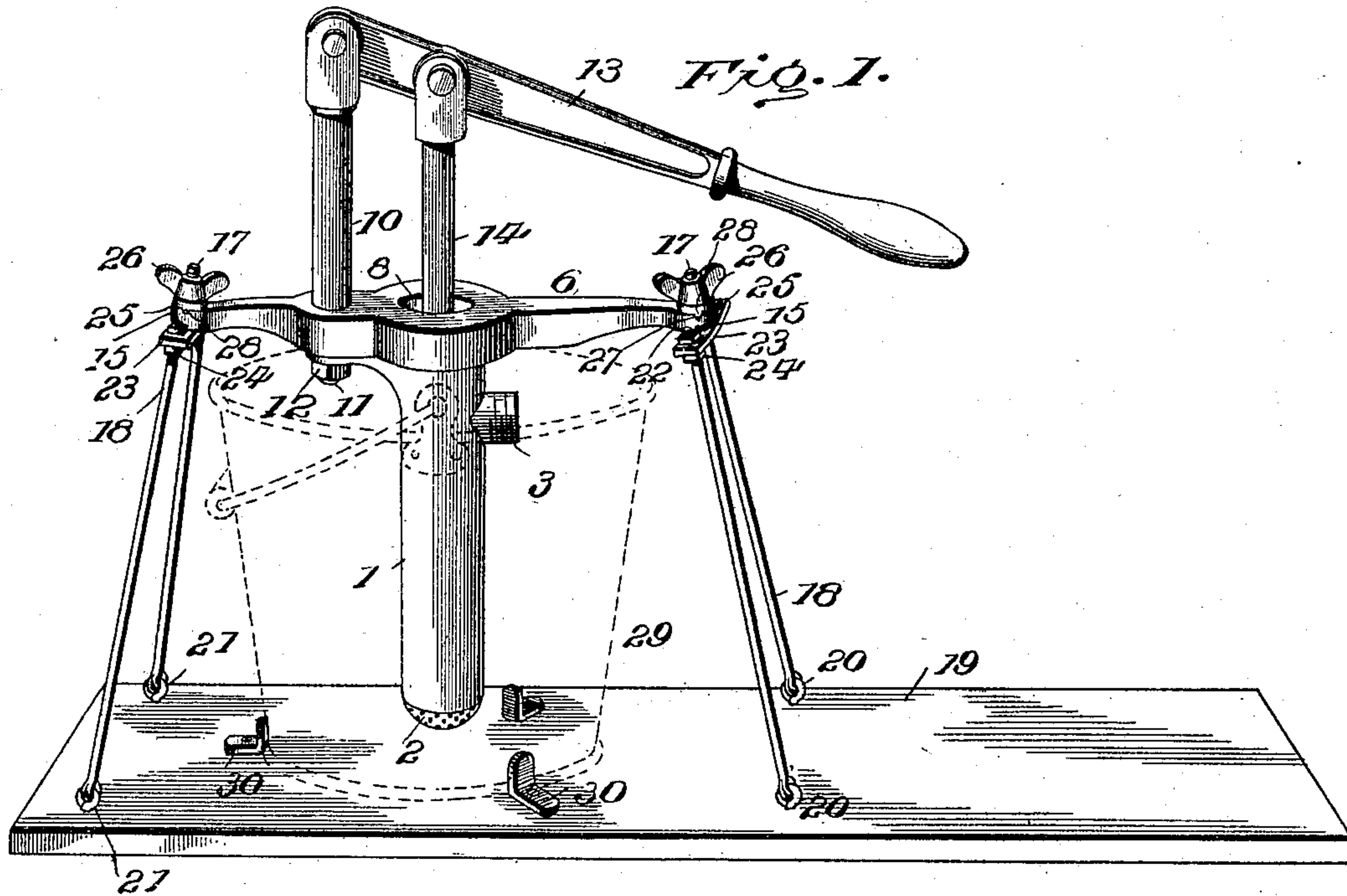
Patented Jan. 10, 1899.

J. RIEG.

SUPPORT FOR PORTABLE HAND PUMPS.

(Application filed June 23, 1898.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

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SUPPORT FOR PORTABLE HAND-PUMPS.

SPECIFICATION forming part of Letters Patent No. 617,358, dated January 10, 1899.

Application filed June 28, 1898. Serial No. 684,668. (No model.)

To all whom it may concern:

Be it known that I, JACOB RIEG, a citizen of the United States, residing at Wilkes-Barré, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Supports for Portable Hand-Pumps, of which the following is a specification.

The object of my invention is to provide a support for portable hand-pumps, such as those used by plumbers for forcing obstructions from pipes, which may be readily assembled for use or taken apart for transportation or storage.

In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective view of my improved support, showing the pump attached. Fig. 2 is an end view of the support, the pump being removed. Fig. 3 is a top perspective view of the base of the support, showing the hinged supporting-legs laid flat thereon in position for being transported or stored; and Fig. 4 shows in perspective the under side of the bridge-piece, which supports the pump and the upper part of the pump-barrel.

Referring to the drawings, 1 indicates the barrel of a force-pump having the usual strainer 2 at the bottom and an outlet 3 near the top arranged to connect with an ordinary hose-coupling. The pump-barrel is provided near its upper end with a lug 4, having a perforation 5 bored vertically through it, and it is held by a bridge-piece 6, extending over the top of the barrel and having in its lower side a socket 7, formed to fit closely over the end of the barrel and the lug 4. The bridge-piece has a circular opening 8, which registers with the bore of the pump-barrel, and a perforation 9, which registers with the perforation 5 in the lug. As illustrated in the accompanying drawings, the pump-barrel is secured to the bridge-piece by means of a standard 10, having a reduced screw-threaded end 11, which passes through the openings 9 and 5 and is provided with a nut 12, by means of which the bridge-piece and the pump-barrel may be drawn tightly together, no other fastening being required. A handle 13 is pivoted to the upper end of the standard 10, and the pump-rod 14 is pivotally secured to the

handle, as shown in the drawings. The ends 15 of the bridge-piece are, as shown, provided with longitudinal slots 16, adapted to receive studs 17, which project from the cross-pieces 23 of a pair of braces 18, which are hinged to the base 19 at points 20 and 21 a suitable distance apart. Each of the braces 18, as shown, consists of a pair of supporting legs or rods having screw-threaded ends 22, which pass through the ends of the cross-piece 23, the latter being secured thereon by nuts 24, arranged on either side of the cross-piece. The studs 17 are rigidly secured to the parts 23 midway of their lengths, and the central portions of the cross-pieces form bearing-surfaces for the ends of the bridge-piece 6. The ends of the cross-pieces are bent slightly upward, and the rods 18 diverge toward the base to give lateral support. The studs 17 are provided with washers 25 and wing-nuts 26, by means of which the bridge-piece may be securely clamped to the cross-pieces 23. To more securely hold the bridge-piece 6 in place, transverse grooves 27 are formed near the ends of the bridge-piece, and the washers 25 are provided with projections 28 upon their lower sides, adapted to fit within the grooves 27.

As shown in the drawings, the braces 18 are secured to the base 19 at the points 20 and 21 by means of screw-eyes; but any other suitable hinge may be employed. The support is arranged near one end of the base, so that when the pump is removed both braces may be laid flat against the base, as illustrated in Fig. 3. The bucket 29, which contains the water to be forced out by the pump, is shown in dotted lines, Fig. 1. It may be secured against lateral displacement by stops or buttons 30, pivoted or permanently secured to the base.

It will be seen that by operating the wing-nuts 26 the bridge-piece may be readily disconnected from the braces and that by removing the nut 12 and disconnecting the rod 14 the bridge-piece may be removed from the pump, if need be, for convenience in transportation or storage, and it will be evident that it can be as readily placed again in operative position.

It is evident that when the pump-barrel is

made long enough to reach the bottom of the bucket it will not be necessary to bolt the parts together, as the barrel, fitting within the socket in the bridge-piece, will be held
5 securely in place when the clamps are tightened.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

10 1. The combination with a pump-barrel and a bridge-piece extending across said barrel, of a base, a pair of braces hinged to said base, and clamps upon the free ends of said braces adapted to engage the ends of the bridge-
15 piece, substantially as described.

2. The combination with a pump and a bridge-piece having slotted ends, of a base, a pair of braces hinged to said base and a clamp upon the free end of each brace, each of said
20 clamps consisting of a bearing-piece having a threaded stud adapted to pass through the slots in the bridge-piece, and a nut upon said stud, substantially as described.

3. The combination with a pump and a
25 bridge-piece to which said pump is attached, of a base and a pair of braces attached to said base, each brace consisting of a pair of supporting-legs hinged to the base at either side of the bridge-piece and united at their free
30 ends by a cross-piece, a threaded stud upon

said cross-piece, and a nut upon the stud, substantially as described.

4. In a pump-support, the combination with a bridge-piece having longitudinally-slotted ends and transverse grooves extending across
35 said ends, of a base and a pair of braces hinged to said base, said braces having bearing portions upon which the ends of the bridge-piece rest, threaded nuts projecting from said bearing portions and adapted to extend
40 through the slots in the bridge-piece, and nuts and washers upon said studs, said washers having projections adapted to engage the grooves in the bridge-piece, substantially as described.
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5. The combination with a pump-barrel having a lug near its upper end, of a bridge-piece having a socket adapted to fit over said lug and pump-barrel, a bolt or standard extending through said bridge-piece and lug, and
50 hinged braces having clamps adapted to engage the ends of the bridge-piece, substantially as described.

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

JACOB RIEG.

Witnesses:

CARL S. BAUER,
BYRON SHAW.