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PATENTED DEC. 17, 1907.

S. PENNELL.
PUMP MOUNTING.
APPLICATION FILED SEPT. 13, 1907.

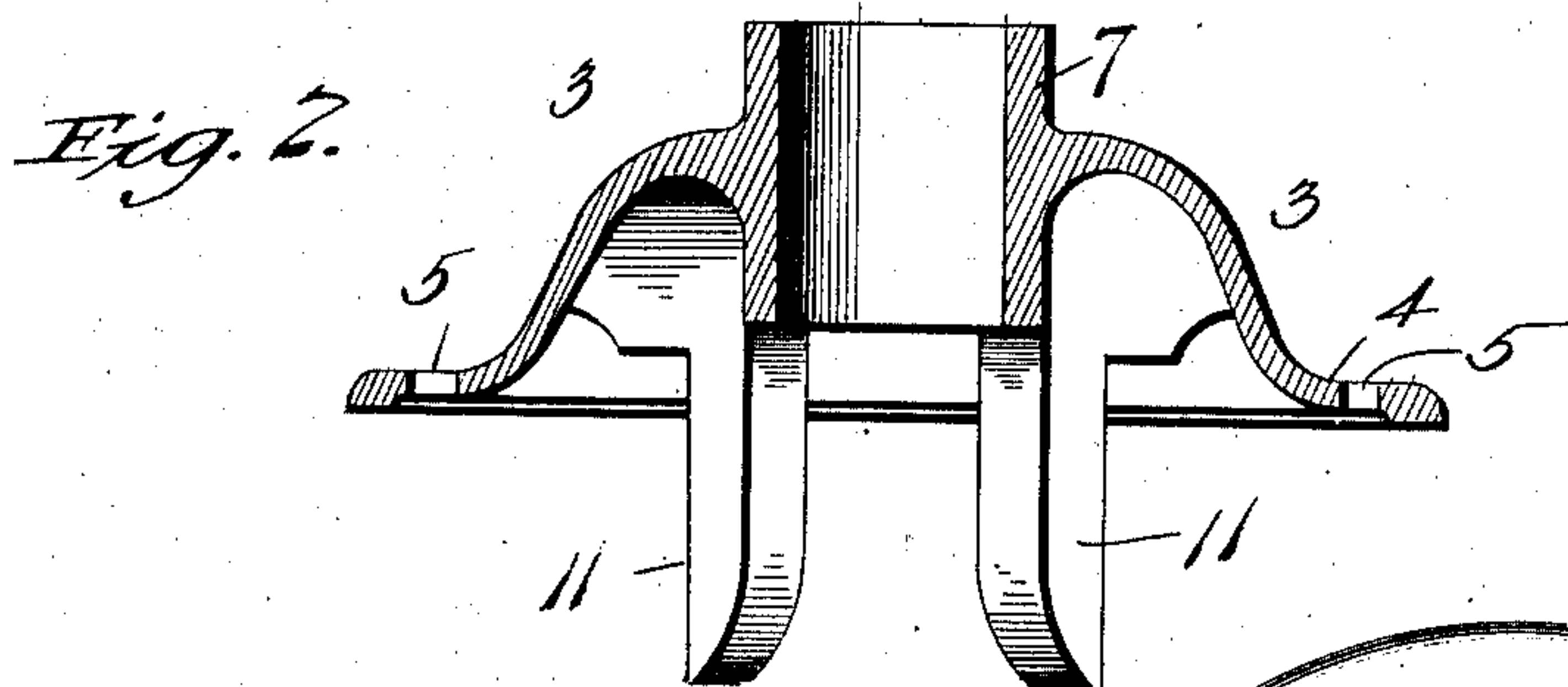
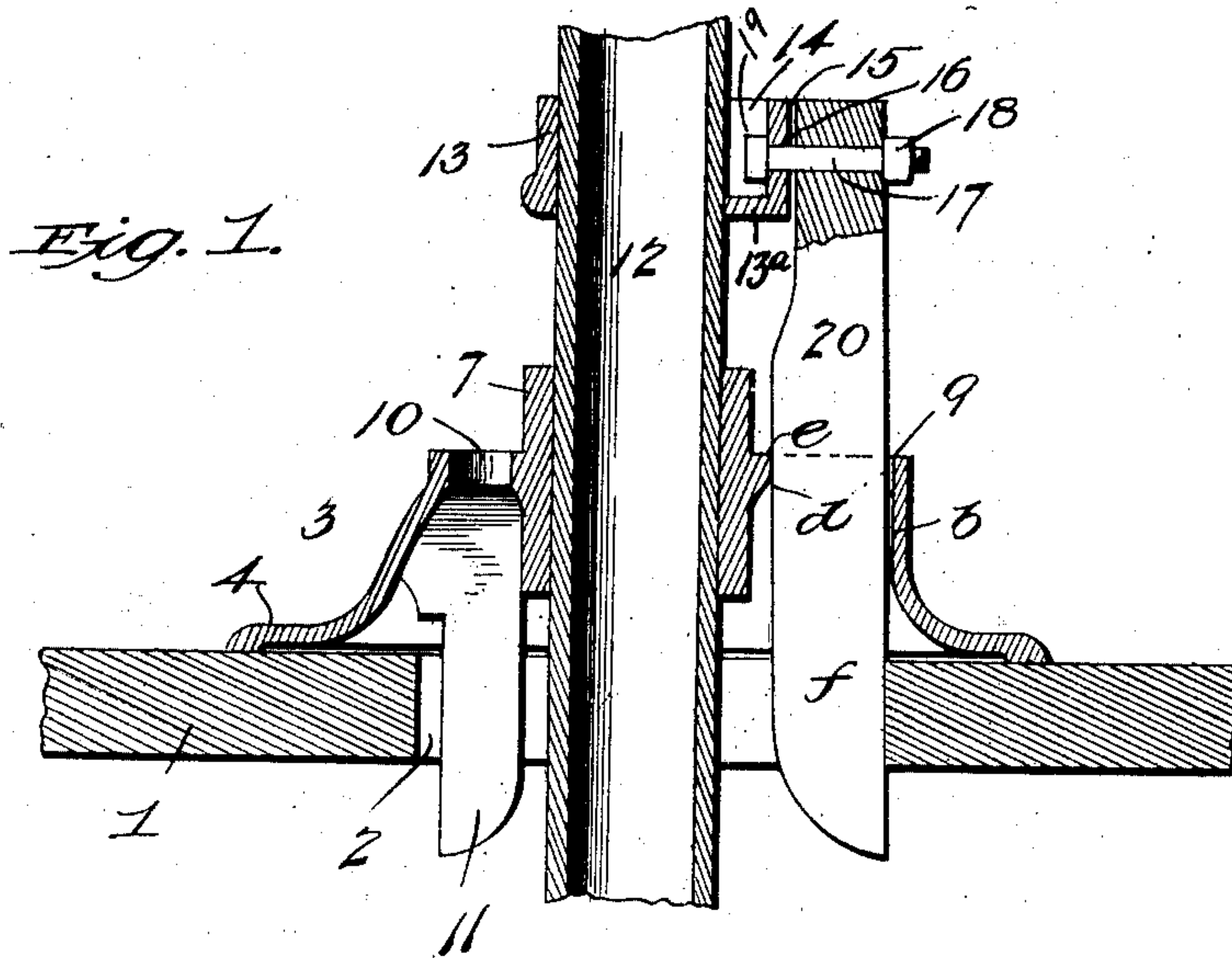


Fig. 3.

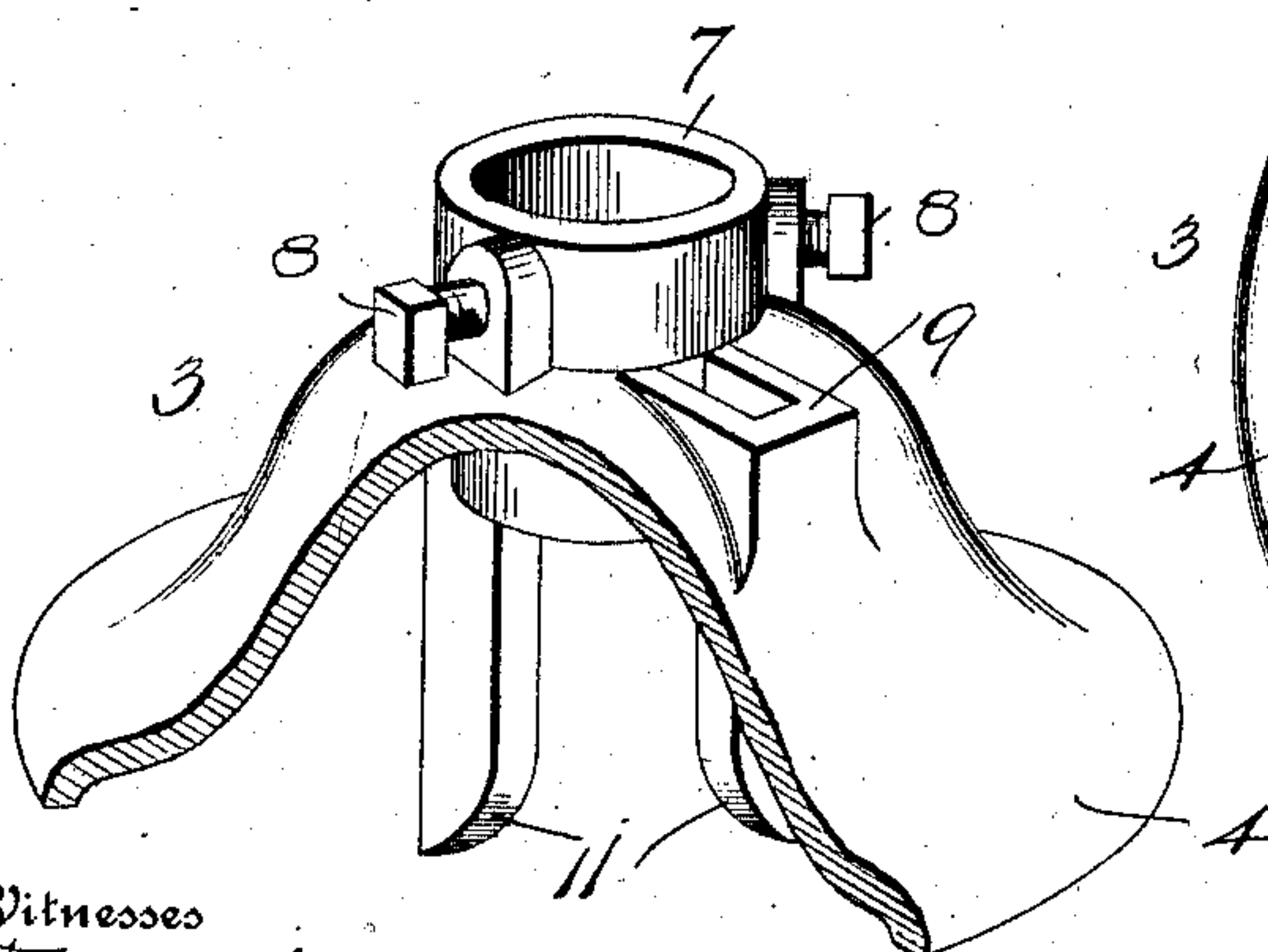
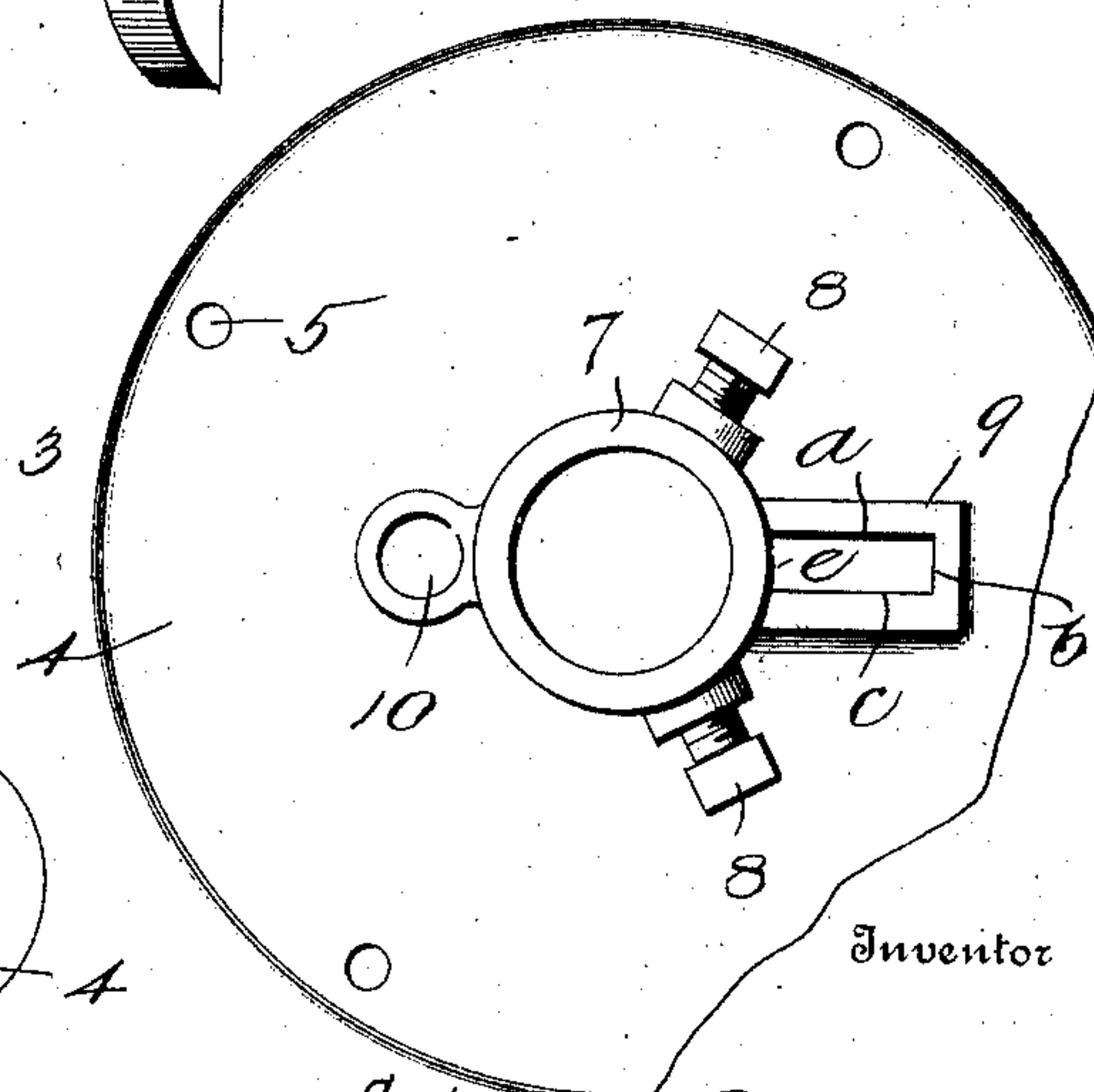


Fig. 4.



Witnesses
T. L. Mochel
C. Ramsey

By

Inventor
Sylvanus Pennell
W. B. Carman
Attorney

UNITED STATES PATENT OFFICE.

SYLVENUS PENNELL, OF GIRARD, OHIO.

PUMP-MOUNTING.

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To all whom it may concern:

Be it known that I, SYLVENUS PENNELL, a citizen of the United States, residing at Girard, in the county of Trumbull and State of Ohio, have invented certain new and useful Improvements in Pump-Mountings, of which the following is a specification.

The present invention relates to certain new and useful improvements in pump mountings, and has specially in view the provision of a simple and practical construction of pump base and base-fastening means for securely and positively positioning the pump with relation to its base, and fastening the latter to the well platform or covering.

To this end, and with other general objects in view which will more readily appear as the nature of the invention is better understood, the same consists in certain details of construction and combinations of parts set forth in detail in the following specification and illustrated in the accompanying drawings.

In said drawings, wherein like reference characters refer to corresponding parts—Figure 1 is a vertical sectional view of the invention showing the pump base attached to the platform of an ordinary dug well and also illustrating its application to the pump barrel. Fig. 2 is a similar view of the pump base alone, the line of section being at right angles to that of Fig. 1. Fig. 3 is a sectional-perspective view of the pump base. Fig. 4 is a top plan view of the same.

In the embodiment of the invention illustrated in the accompanying drawings, the same has been shown as applied to the ordinary platform of a dug well, although it will, of course, be understood that the invention is equally as well adapted for use in connection with the drilled type of wells, as when employed with the latter kind of well the base and base fastening is applied to the covering top of the well casing.

Referring to the drawings, 1 designates a platform or well covering, provided with a pump opening 2 through which the pump barrel extends.

The improved pump base designated by the numeral 3 is designed to be arranged on the well platform, or covering, over the pump opening 2 therein, and said base essentially consists of a circular casting, usually of a hollowed formation, and thereby presenting an inverted dish-shape, having at its periphery a substantially horizontal attaching

flange 4 provided with a plurality of fastener holes 5 for the reception of screws or equivalent fastenings to rigidly secure the base to the well covering 1. The base is also provided with a central holding sleeve 7 which projects above and below the upper portion of the base body, and the upper portion or neck of said sleeve has fitted in threaded openings therein the binding set screws 8, the function of which will presently appear.

The upper portion of the pump base, at one side of the vertical plane of the holding sleeve 7, has formed therein a lever slot 9 having substantially vertical walls *a*, *b*, *c*, and at the correspondingly opposite side of said sleeve, the base is preferably provided with the usual vent opening 10. Also, at its under side, the base body is provided with a pair of depending binding lugs 11—11 which are arranged at one side of the central holding sleeve 7 opposite the location of the slot 9, and are adapted to bind against the edge of the pump opening 2 when the base is locked in position as will be hereinafter explained. The parts enumerated, that is to say, the base proper or body 3, attaching flange 4, central holding sleeve 7 and binding lugs 11—11 are preferably cast integral.

The central holding sleeve 7 is adapted to receive the pump barrel 12, and at a suitable point upon the latter, above the upper end of the said sleeve, a collar 13 is fitted. This collar is provided with an outstanding bolt-holding portion 13^a forming an inside recess 14, the outer wall 15 of which has an opening 16 for the reception of one end of a clamping bolt 17, the outer threaded end of which carries a nut 18. The recess 14 is of sufficient size to permit of the head 19 of the bolt being placed therein, but will not permit of its rotation.

A locking lever 20 has its upper end adjustably mounted on the clamping screw 17, its other end being extended through the lever slot 9 of the base 3, and into the pump opening 2 of the well platform or covering. The arrangement of the parts just described is shown in Fig. 1 of the drawings, and by reference to said figure it will be observed that when the nut 18 is turned on the bolt 15 against the locking lever, the upper end of the latter will be moved inward thereby rocking the intermediate portion *d* of the locking lever on the end wall *e* of the lever slot 9, which wall, acting as a fulcrum for said lever, causes the lower end *f* thereof to

move in an outward direction and thereby bind against the edge of the pump opening 2 opposite the edge portion engaged by the lugs 11—11.

5 The adjustment of the locking lever will cause the base to move across the pump opening until its binding lugs are brought into engagement with the edge of said base opposite the edge portion against which the 10 lower end of the locking lever binds. After the lower end of the locking lever and the binding lugs are thus in fixed engagement with opposite edge portion of the pump opening, the pump base is finally secured in position by the means previously referred to. 15

To release the pump base, the fastening screws are removed from the attaching flange and the nut released from engagement with the upper end of the locking lever, 20 whereupon said lever may be rocked upon its fulcrum to release its lower end from its binding engagement with the edge of the pump opening, whereupon the pump base may be removed from the well platform or 25 covering.

I claim as my invention:—

1. In a pump mounting, the combination with the well covering and the pump barrel, of a pump base having a binding engagement 30 with the well covering, and an adjustable locking lever supported from the pump barrel, fulcrumed on the base, and also having a binding engagement with the well covering.

2. In a pump mounting, the combination 35 with the well covering and pump barrel, of a pump base having binding lugs for engagement with the edge of the pump opening in the well covering, a lever locking device having engagement with the edge of said pump 40 opening opposite said binding lugs, and a fastening connection between the base and the barrel.

3. In a pump mounting, the combination with the well covering and pump barrel, of a 45 clamping bolt carried by said barrel, a pump base having binding lugs for engagement with the pump opening of the well covering, an adjustable lever carried by said clamping bolt for securing the base to the well cover-

ing, and a fastening connection between the 50 base and barrel.

4. In a pump mounting, the combination with the well covering and pump barrel, of a collar carried by said barrel, a clamping bolt carried by said collar, a pump base having 55 binding lugs for engagement with the pump opening of the well covering, an adjustable lever carried by said clamping bolt for securing the base to the well covering, and a fastening connection between the base and 60 barrel.

5. In a pump mounting, the combination with the well covering and pump barrel, of a collar carried by said barrel, a clamping bolt carried by said collar, a locking lever adjust- 65 ably mounted on said clamping bolt, a pump base provided with a lever slot through which the locking lever extends to have a binding engagement with the well covering, and a fastening connection between the base 70 and barrel.

6. In a pump mounting, the combination with the well covering and pump barrel, of a pump base provided with binding lugs for engagement with the well covering and also 75 provided with a lever slot, a collar carried by said barrel, a clamping bolt carried by said collar, a locking lever adjustably mounted on said clamping lever and adapted to extend through said lever slot and engage with 80 the well covering to lock said base to said well covering, and a fastening connection between the base and barrel.

7. In a pump mounting, the combination with the well covering and the pump barrel, 85 of a pump base carrying binding lugs and provided with a lever slot, and an adjustable lever supported from the pump barrel, said lever extending through said lever slot and having a fulcrum engagement with one wall 90 thereof.

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

SYLVENUS PENNELL.

Witnesses:

JOSEPH F. WILLIAMS,
CHARLES M. RAMSEY.