

No. 830,782.

PATENTED SEPT. 11, 1906.

H. A. GRAY.
WELL CAP.

APPLICATION FILED JULY 10, 1905.

2 SHEETS—SHEET 1.

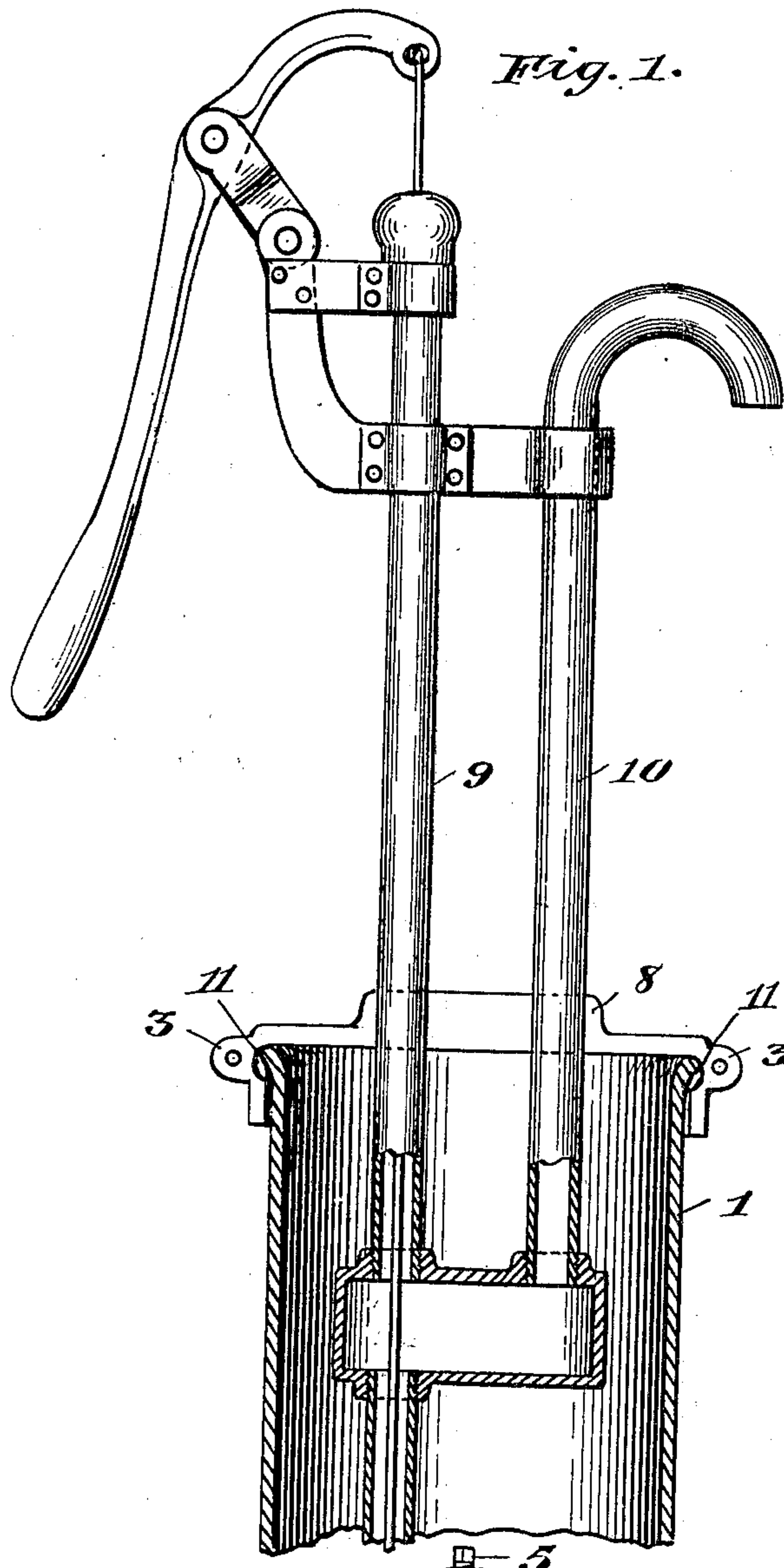
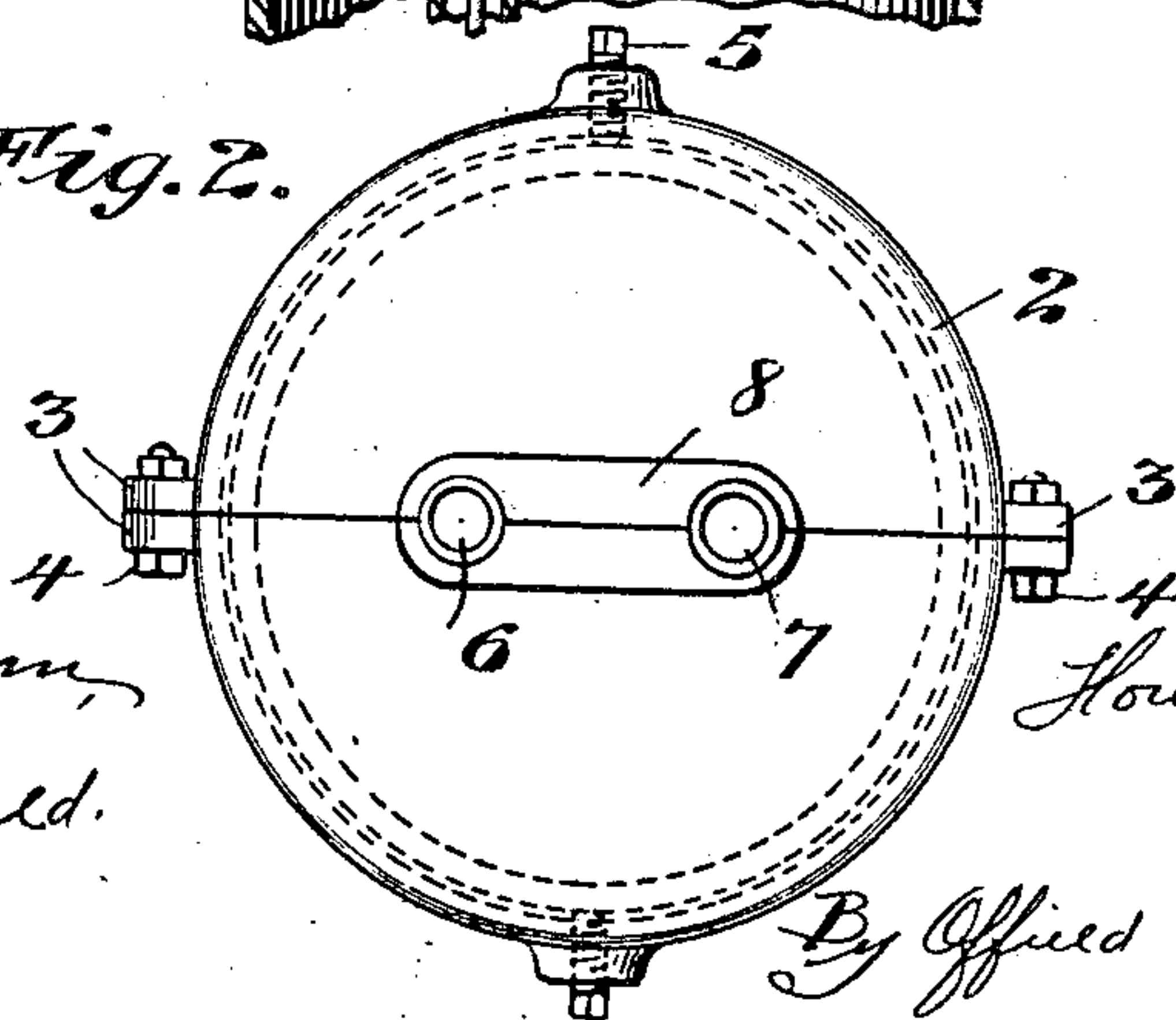


Fig. 2.



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2 SHEETS—SHEET 2.

Fig. 3.

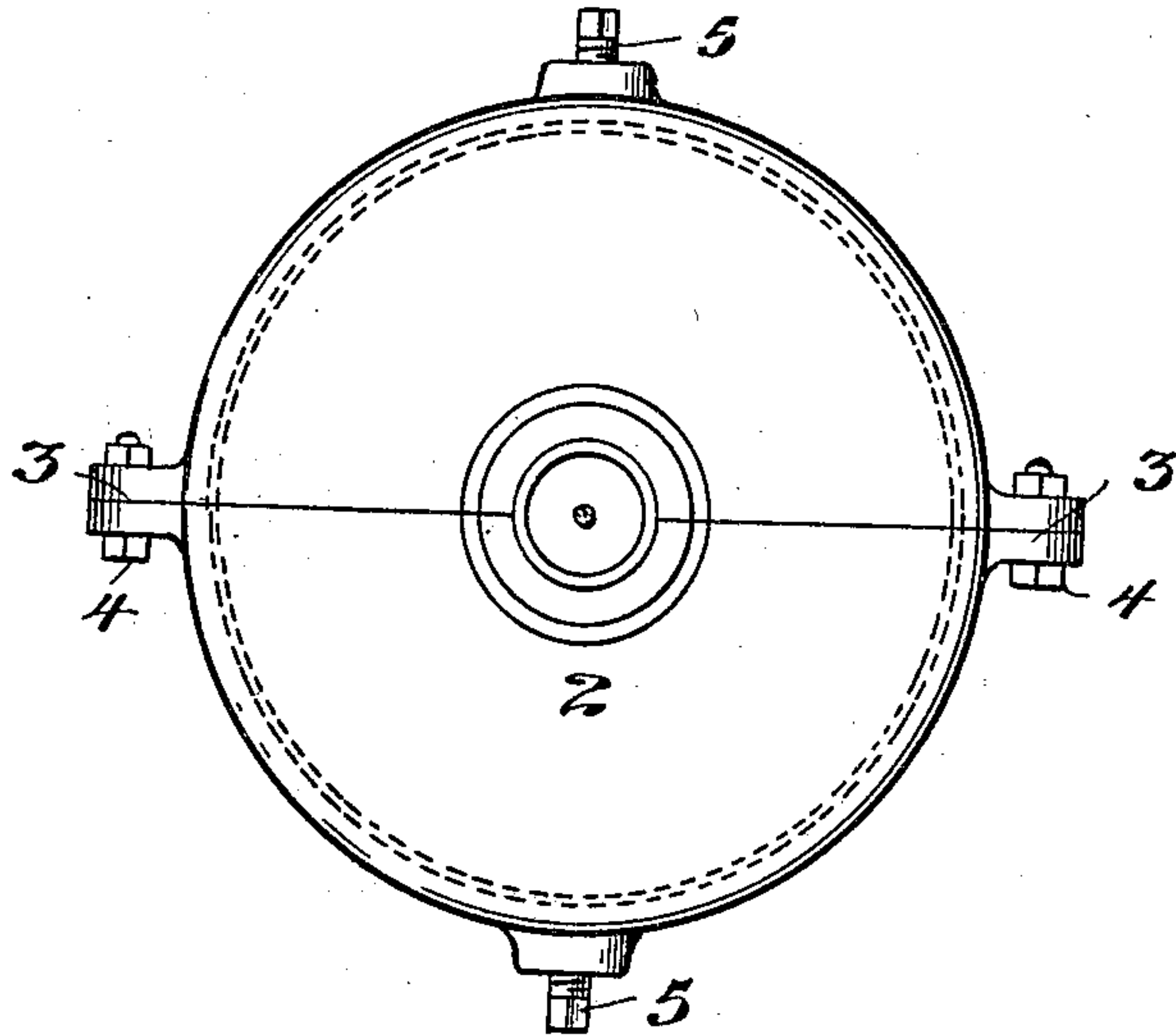
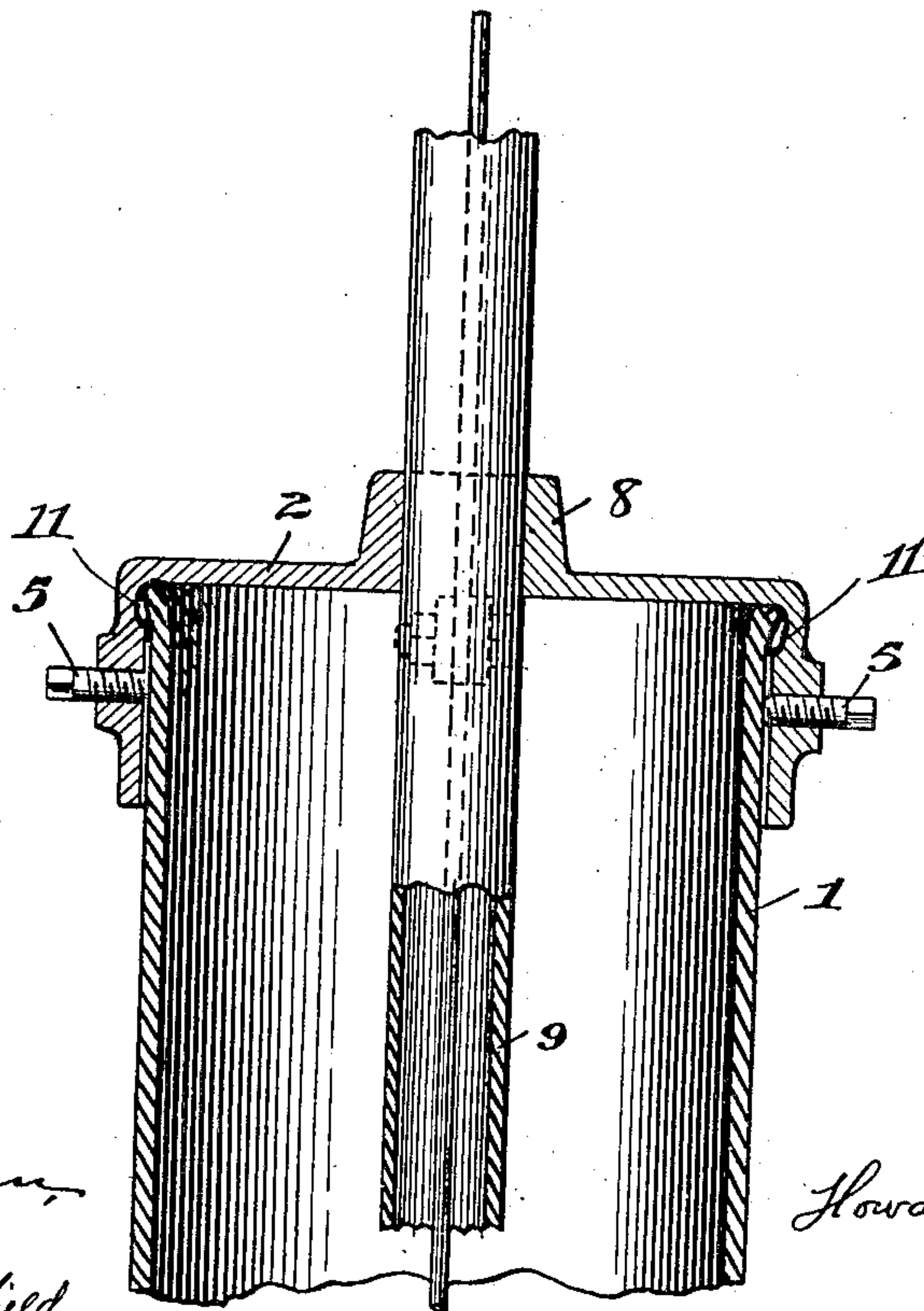


Fig. 4.



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UNITED STATES PATENT OFFICE.

HOWARD A. GRAY, OF PLAINFIELD, ILLINOIS.

WELL-CAP.

No. 830,782.

Specification of Letters Patent.

Patented Sept. 11, 1906.

Application filed July 10, 1905. Serial No. 269,079.

To all whom it may concern:

Be it known that I, HOWARD A. GRAY, a citizen of the United States, residing at Plainfield, in the county of Will and State of Illinois, have invented certain new and useful Improvements in Well-Caps, of which the following is a specification.

This invention relates to well-caps adapted to form a cover for the well, and more particularly to a support to prevent lateral and longitudinal movement of the pump passing therethrough.

Among the salient objects of the invention are to provide a cap or cover of such construction that it can be readily applied to or removed from the well without the necessity of removing or disjoining the pump, to provide means for securing said cap or cover to the well-pipe and at the same time within certain limits center the pump in the well, and in general to provide a well-cap of the character referred to which is cheap, simple, and durable.

The invention will be readily understood from the following description, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a pump, well-pipe, and cap, the well-pipe and part of the pump being shown in section. Fig. 2 is a top plan view of a well-cap. Fig. 3 is a top plan view of a modified form of well-cap. Fig. 4 is a sectional view showing the application of the cap shown in Fig. 3.

Referring to the drawings, 1 designates the upper end of the pipe forming the well-lining, and 2 the cap, said cap being made in two pieces and adapted to fit down over the pipe 1 in the manner shown. The interior diameter of the cap is slightly larger than the exterior diameter of the pipe to permit of a slight adjustment laterally to center the pump in the well. The two portions of the cap are of semicircular form and are provided at opposite sides with integrally-formed ears or lugs 3 3, adapted to receive the bolts 4 4, by means of which the two parts are secured together after being placed around the pump-stems. At opposite sides of said cap are formed two bosses, through which work the set-screws 5 5, said screws being means whereby the cap can be adjusted laterally within certain limits for the purpose of centering the pump in the pipe.

In the middle portion of the cap and around the apertures 6 7 is formed a boss 8,

said boss being formed in two portions, one on each portion of the cap and constituting a bearing or support for the pump stems or stocks 9 10.

In driving the well-pipe it frequently becomes turned or battered at its end, which necessitates the removal of a portion of the pipe before a cap can be applied. To obviate this difficulty of removing a portion of the pipe, I construct my device with a circumferential groove on the interior of the downwardly-projecting flanges (shown at 11 11) adapted to fit over the turned or battered portion of the pipe, thereby holding the same more securely against longitudinal movement with the pump stem or stock and not requiring a portion of the pipe to be removed.

Figs. 3 and 4 show the same general construction, except that the cap is made to accommodate a pump with a single stem or stock.

It will thus be seen that a well-cap constructed in the manner shown and described forms a most effective pump-support, by means of which the pump is rigidly secured in proper position and at the same time making it possible to easily and quickly apply the cap without removing a portion of the well-pipe.

The caps are preferably made of cast-iron, and as the two halves are exactly the same it will be understood that the cost of manufacture is reduced to a minimum.

I claim—

1. A well-cap comprising two parts adapted to be secured together around the stem or stock of a pump and provided with a downwardly-projecting flange having a circumferential groove on its inner face to fit over the well-pipe, and means for securing said parts together, substantially as described.

2. A two-part well-cap provided with a downwardly-extending flange having a circumferential groove on its inner face adapted to fit over the well-pipe, integrally-formed ears for securing the parts of said cap together about the stem or stock of the pump, oppositely-disposed set-screws in the flange portion thereof for securing said cap adjustably to the well-pipe, substantially as described.

3. A two-part well-cap provided with a downwardly-projecting flange having a circumferential groove on its inner face adapted to fit over the well pipe or cap and provided with a boss in the middle portion thereof

forming an extended bearing portion for the pump stem or stock, and means for securing said parts together rigidly upon the well-pipe, substantially as described.

- 5 4. A well-cap provided with a downwardly-projecting flange having a circumferential groove on its inner face adapted to fit over the well-pipe, a boss formed integrally therewith and provided with aper-

tures to receive the pump stem or stock, and oppositely-disposed set-screws in the flange thereof for securing said cap adjustably to the well-pipe, substantially as described.

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Witnesses:

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