

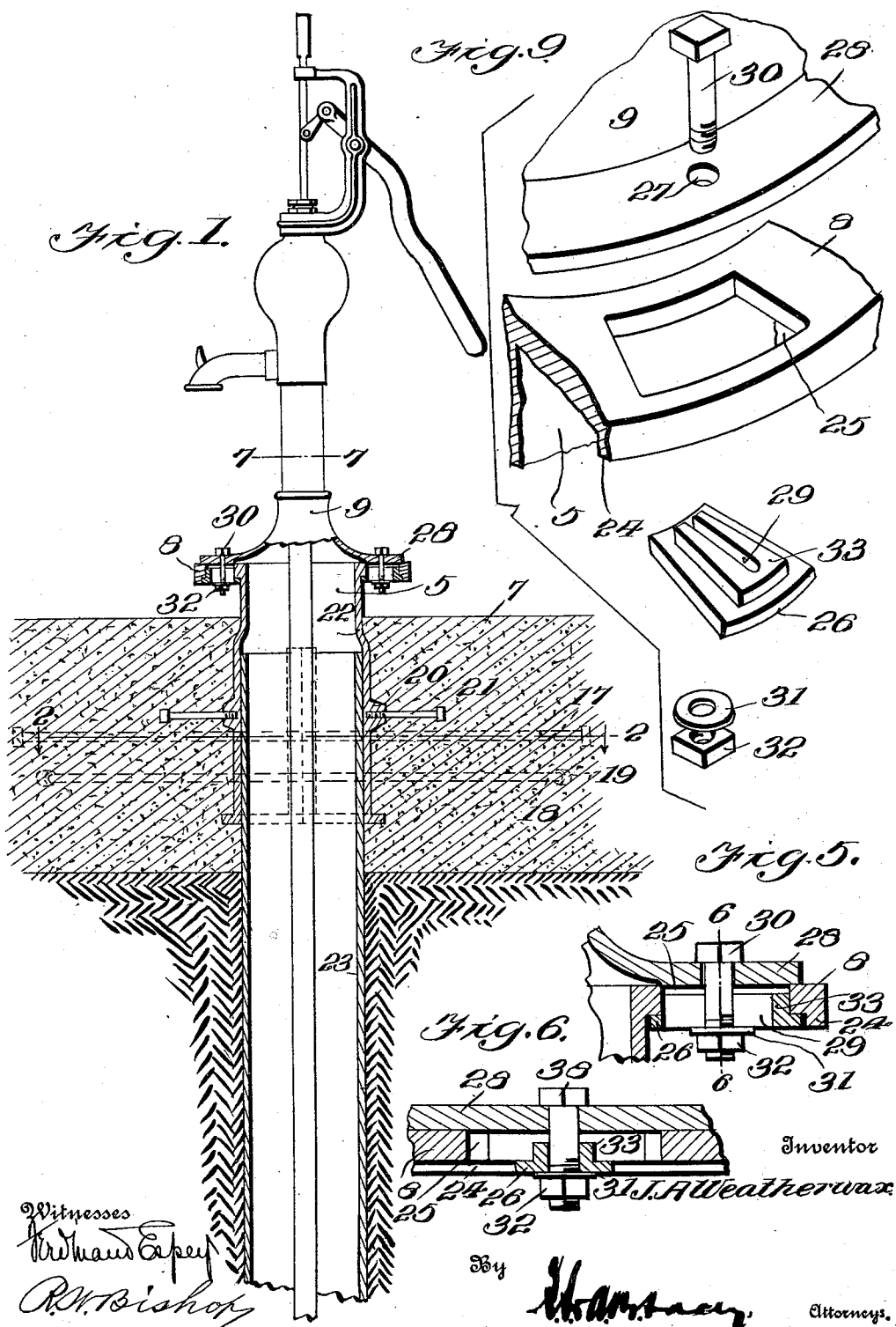
PUMP SUPPORT.

APPLICATION FILED APR. 9, 1912.

Patented Dec. 3, 1912.

2 SHEETS—SHEET 1.

1,046,127.



J. A. WEATHERWAX.
PUMP SUPPORT.
APPLICATION FILED APR. 9, 1912.

1,046,127.

Patented Dec. 3, 1912.
2 SHEETS—SHEET 2.

Fig. 2.

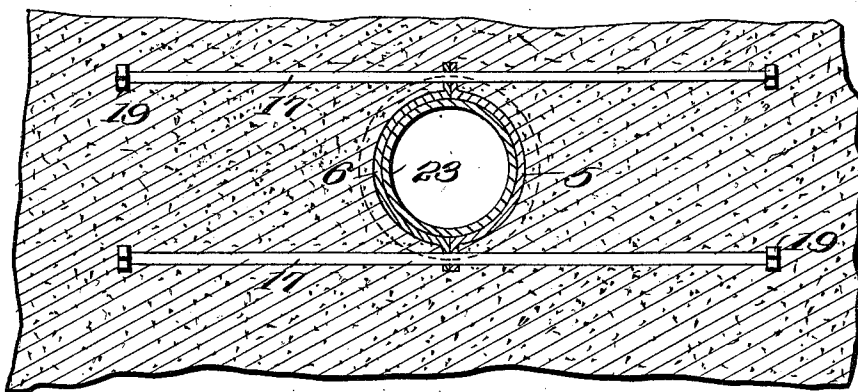


Fig. 3.

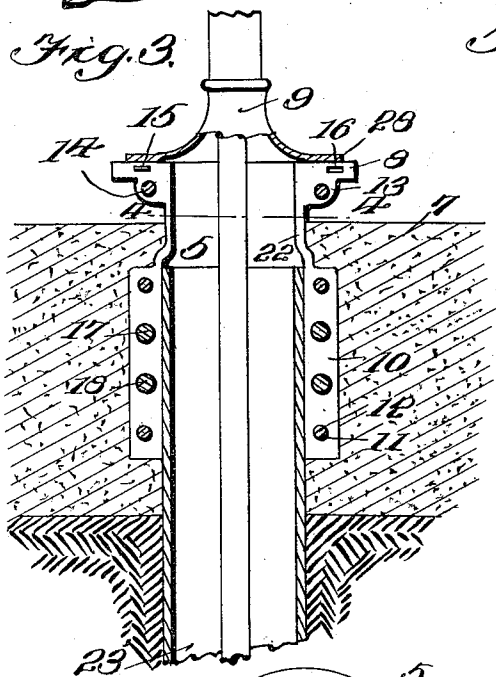


Fig. 7.

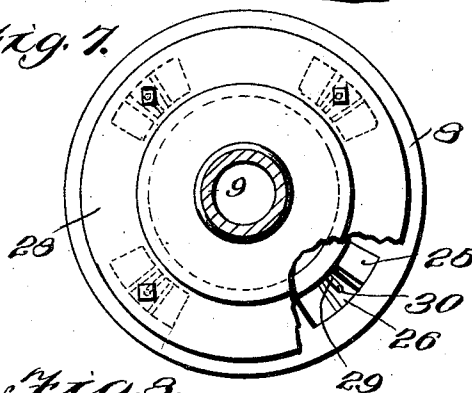


Fig. 8.

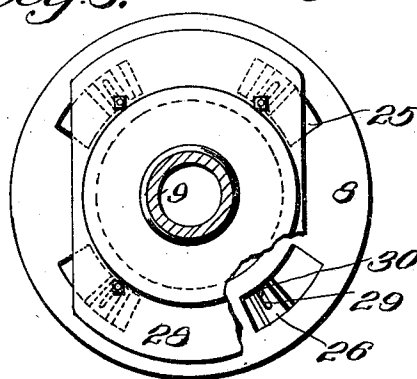
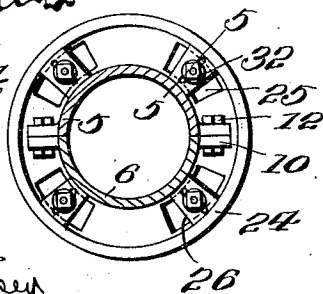


Fig. 4.



Witnesses

Wm. E. Espey

R. W. Bishop

By

Inventor
J. A. Weatherwax.

Wm. E. Espey, Attorneys.

UNITED STATES PATENT OFFICE.

JOHN A. WEATHERWAX, OF MILLEDGEVILLE, ILLINOIS.

PUMP-SUPPORT.

1,046,127.

Specification of Letters Patent.

Patented Dec. 3, 1912.

Application filed April 9, 1912. Serial No. 689,531.

To all whom it may concern:

Be it known that I, JOHN A. WEATHERWAX, citizen of the United States, residing at Milledgeville, in the county of Carroll and State of Illinois, have invented certain new and useful Improvements in Pump-Supports, of which the following is a specification.

This invention relates to pump supports and has for its object the provision of a comparatively simple and thoroughly sanitary device of this character, the construction of which is such as to afford a solid foundation for a pump and at the same time effectually prevent the entrance of rats, toads and other vermin to the interior of the well.

A further object of the invention is to provide a sectional support, the parts of which may be readily assembled beneath the pump stock and a concrete curb or platform built around the same by merely elevating the pump stock and without the necessity of removing the water pipe or otherwise dismantling said pump.

A further object is to provide means for detachably securing the pump stock to the support, and means whereby the securing devices may be adjusted so as to permit the attachment of pump stocks having base flanges of different sizes.

A further object is to provide novel means for anchoring the support within the concrete curb or platform, said anchoring means also serving to reinforce the concrete and prevent cracking or disintegration thereof.

A still further object of the invention is generally to improve this class of devices so as to increase their utility, durability and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

For a full understanding of the invention and the merits thereof, reference is to be had to the following description and accompanying drawings, in which:—

Figure 1 is a vertical sectional view of a pump support constructed in accordance with my invention, the pump stock being shown in elevation. Fig. 2 is a horizontal sectional view taken on the line 2—2 of Fig. 1. Fig. 3 is

a vertical sectional view taken at right angles to Fig. 1. Fig. 4 is a horizontal sectional view taken on the line 4—4 of Fig. 3 and looking upward. Fig. 5 is an enlarged detail section taken on the plane indicated by the line 5—5 of Fig. 4. Fig. 6 is a similar view taken on the line 6—6 of Fig. 5. Fig. 7 is a horizontal section taken on the line 7—7 of Fig. 1 and looking downward, showing the fastening devices adjusted to engage the bolt holes in a circular base flange of a pump stock. Fig. 8 is a similar view showing the devices adjusted to secure a pump stock having an elliptical or oblong base flange. Fig. 9 is a view in perspective showing the several parts of one of the fastening devices detached but in position to be assembled.

The improved pump support forming the subject matter of the present invention comprises a hollow body portion, preferably cylindrical in cross section and formed of mating sections 5 and 6, said body portion being embedded in a concrete curb or platform 7 and provided with a laterally extending flange 8 adapted to receive and support the base flange of a pump stock, indicated at 9.

The sections 5 and 6 comprising the body portion are provided with vertically disposed flanges 10 having registering perforations 11 formed therein for the reception of bolts or similar fastening devices 12, which latter serve to hold the sections rigidly in assembled position preparatory to filling in the concrete or other material forming the curb or platform. These flanges 10 also form in effect anchoring wings to assist in preventing turning movement of the pump support within the well curb. The sections 5 and 6 are also preferably provided with depending ears 13 which form a connection between the supporting flange and hollow body portion and are provided with registering perforations for the passage of securing bolts 14. The abutting face of each support section at the flange 8 is preferably provided with a lug 15 adapted to enter a correspondingly shaped depression 16 formed in the abutting face of the mating section to assist in alining said sections preparatory to applying the securing bolts.

Extending transversely through suitable openings formed in the vertical flanges 10, are spaced anchoring rods 17 and 18, preferably arranged at an angle to each other and having their opposite ends extended

laterally beyond the exterior wall of the pump support and provided with terminal heads 19. These rods 17 and 18 not only form anchoring members for the pump support, but also serve to reinforce and strengthen the concrete curb or platform and assist in preventing cracking or disintegration thereof. Each support section is also preferably provided with an exterior boss 20 arranged between the flanges 10 and having a threaded socket formed therein for the reception of a correspondingly threaded bolt 21. The bolts 21 are preferably shorter than the anchoring members or bolts 17 and 18 and serve to assist in strengthening the platform as well as to prevent accidental displacement of the pump support.

While I have shown and described the pump support as being made in two sections or members which are clamped together and such construction is desirable by reason of the convenience with which it may be assembled, I may make the pump stock in a single integral member and my invention contemplates flaring the support, as indicated at 22, so that the support may be readily slipped down over the well casing or tubing 23 and its upper portion be of such dimensions as will properly fit the pump stock.

The supporting flange 8 is preferably provided with a depending rim 24 at its outer edge on its underside, and the said flange is constructed with a plurality of spaced openings 25, the side walls of which form arcs concentric with the pump support, and the end walls of which are disposed substantially on radii of the pump support, as clearly shown in the drawings. Disposed against the under face of the supporting flange 8 are a plurality of adjustable plates 26 having their opposite ends curved to correspond to the curvature of the pump support and adapted to fit against and between the said support and the rim 24, as shown most clearly in Figs. 1 and 5. The inner and outer ends of these adjustable plates, therefore, extend beyond the walls of the openings 25, so that the plates completely bridge the said openings and may be adjusted annularly to bring the same in proper position to rest under the bolt holes 27 formed in the base flange 28 of the pump stock. The plates 26 are constructed with transverse slots 29 adapted to receive the fastening bolts 30 inserted through the said openings 27, and a washer 31 and a nut 32 are mounted upon the lower end of each of said bolts 30 to be clamped against the underside of the adjustable plates 26 and thereby secure the pump stock firmly upon the pump support. It will be readily appreciated that the openings 25 have considerable area, so that the plates 26 bridging the same may be shifted to a considerable extent around the pump support

and thereby brought under the openings in almost any well known pump stock base flange, notwithstanding the great variety in the shapes of said base flanges and the various dispositions and arrangements of the bolt holes in the same.

By referring to Figs. 7 and 8, it will be noticed that the bolt holes in a circular base flange are arranged at equal distances apart, whereas the bolt holes in an oblong or elliptical base flange are spaced a greater distance apart along the sides of said flange than across the ends of the same. My fastening device, however, will operate equally well with both forms of base flange, as will be readily understood.

The slot 29 in the adjustable plate 26 permits the fastening bolt to pass through the said plate at different points along the radii of the support, and annular adjustment is accomplished by shifting the plate annularly upon the flange 8. The rim 24 aids in said annular adjustment of the adjustable plate, but it is not essential and may be dispensed with, the plate being held in place by the fastening bolts 30 and the nut 32 mounted thereon, as will be evident. To further aid in guiding the said plate and to reinforce the same, I prefer to form on the upper side thereof a projection or rib 33 which extends along the walls of the slot 29 and is adapted to engage the inner and outer walls of the opening 25 so as to guide the plate in its adjustments.

My improved fastening device is exceedingly simple in its construction and the arrangement of its parts, and provides practically an unlimited adjustment, so that a pump support constructed in accordance with my invention may receive and have firmly secured thereto the base flange of any pump stock now on the market.

The rim depending from the flange of the base support not only serves as a guide for the adjustable plate of the securing device, but also serves to reinforce and strengthen the supporting flange. The supporting flange 8 is preferably spaced a short distance from the upper surface of the concrete curb so as to facilitate the removal and replacement of the fastening devices and the turning home of the securing nuts on said devices. The concrete curb not only furnishes a solid foundation for the pump support, but also effectually prevents the entrance of rats or other vermin to the interior of the well, so that it will remain in a thoroughly sanitary condition at all times.

In this present application, I make no broad claim to the manner of anchoring the pump support on a concrete curb, nor do I make any broad claim to a fastening device adjustable radially and annularly with respect to the supporting flange, as claims to those features are made in my co-pending

application, Serial No. 679,199, filed Feb. 21, 1912.

Having thus described my invention, what I claim, is:—

5 1. The combination with a concrete well curb, of a well tube having its upper end within the curb, a pump support comprising a hollow body portion embedded in the curb and having an enlarged lower portion fitting
10 over the upper end of the well tube, the upper reduced end of the said hollow body portion projecting above the curb and provided with a supporting flange, a pump stock resting on said supporting flange, fastening devices
15 extending through the said pump stock and supporting flange, and anchoring rods carried by the said hollow body portion and projecting therefrom into the concrete curb.

2. A pump support including a hollow
20 body portion having a supporting flange provided with spaced openings, slotted plates extending across said openings below the supporting flange and movable annu-
25 larly along the flange, a pump stock resting on the supporting flange, and fastening devices extending through the pump stock and the slots in the said plates for detachably
30 securing the pump stock in different positions of adjustment on the supporting flange.

3. A pump support including a hollow
body portion having a supporting flange provided with spaced arcuate openings and a rim depending from the underside of said
35 flange at the outer edge thereof, slotted plates bearing against the lower face of the flange between the hollow body portion and

the depending rim and movable annularly of the flange, a pump stock resting on the supporting flange, and fastening devices extending through the pump stock and the
40 slots in the plates.

4. A pump support including a hollow body portion having a supporting flange provided with spaced openings, the inner and outer walls of said openings being arcs
45 concentric with the hollow body portion of the support and the end walls of the openings being radii of the flange, slotted plates bearing against the underside of the flange and bridging said openings, a pump stock
50 supported on the flange, and fastening devices extending through the pump stock and the slotted plates.

5. A pump support comprising a hollow body portion having an annular supporting
55 flange provided with spaced annular openings, slotted plates bearing against the underside of the said flange and bridging said openings and provided on their upper sides with ribs at the sides of the slots therein ex-
60 tending into the openings in the flange and engaging the inner and outer walls of the same, a pump stock resting on the supporting flange, and fastening devices extending
65 through the pump stock and the said slotted plates.

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

JOHN A. WEATHERWAX. [L. s.]

Witnesses:

FRANK HUTCHISON,
JACOB F. GREENAWALT.