

(No Model.)

J. FOWLEY.
MANHOLE COVER FOR CISTERNS OR WELLS.

No. 533,284.

Patented Jan. 29, 1895.

Fig. 1.

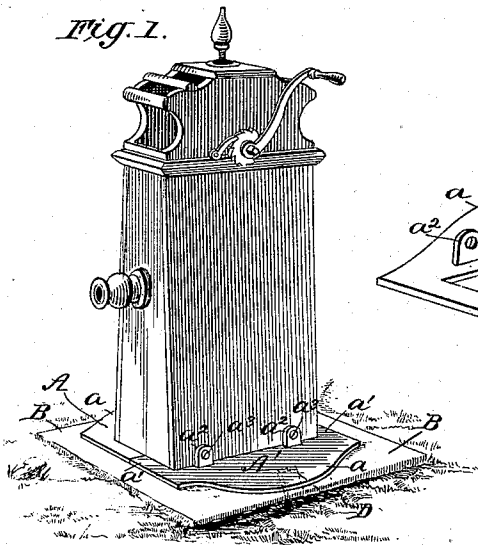


Fig. 2.

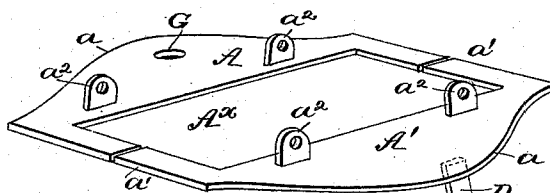


Fig. 4.

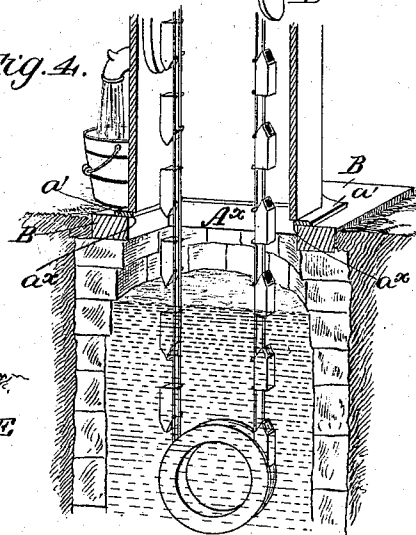


Fig. 3.

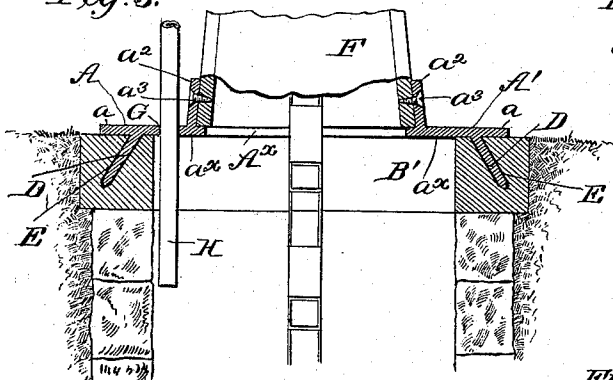


Fig. 5.

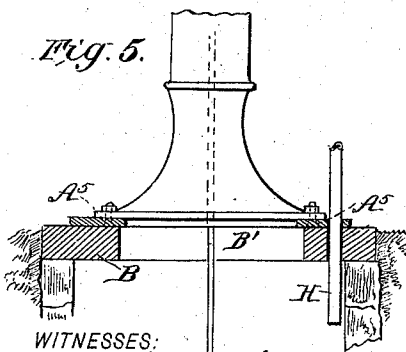
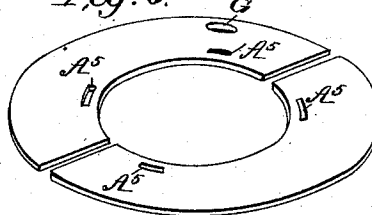


Fig. 6.



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MANHOLE-COVER FOR CISTERNS OR WELLS.

SPECIFICATION forming part of Letters Patent No. 533,284, dated January 29, 1895.

Application filed September 17, 1894. Serial No. 523,289. (No model.)

To all whom it may concern:

Be it known that I, JAMES FOWLEY, residing at Cobden, in the county of Union and State of Illinois, have invented a new and Improved Cover-Plate for Wells or Cisterns, of which the following is a specification.

My invention relates to cover plates for wells and cisterns, and it refers more particularly to a cover plate formed in sections which can be quickly fitted in position over the mouth of the well or cistern or removed therefrom as may be desired.

My invention has primarily for its object to provide a cover plate of this character of a simple and economical construction, which will serve as the base or curb member to which the pump casing or stock can be easily and securely attached.

Furthermore it has for its object a cover plate so constructed and adapted to be arranged on the curb-stone or other top member of the well mouth, that it will effectively serve to keep mice and other vermin from entering the well.

With other objects in view, which hereinafter will appear my invention consists in the peculiar combination and novel arrangement of parts, such as will be first described in detail and then be specifically pointed out in the appended claims, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a chain pump casing secured to my improved cover plate. Fig. 2 is a perspective view of the said cover plate detached. Fig. 3 is an end view of the pump casing shown in Fig. 1 with the cover plate in position, said plate being partly in section. Fig. 4 is a view illustrating my improved cover plate used in connection with a water elevator and purifier. Fig. 5 is a view illustrating the cover plate used in connection with a force pump, and Fig. 6 is a detail perspective view of the two parts of the cover plate for a force pump stock.

In the practical construction of my invention the cover plate when made for use in connection with chain, and water elevating and purifying pumps, is substantially of a rectangular shape, so as to form a convenient base for the casing of such pumps.

In the construction shown in Figs. 1 to 4 the cover plate consists of two sections or

halves A A' the sides a of which are of a greater width than the end portions $a' a'$, and such sides have each a pair of upwardly projecting lugs or ears $a^2 a^2$.

B indicates the top member or curb stone which fits over the well, and which has the usual man hole or opening B', which opening in all cases is cut slightly larger than the opening A' formed in the cover plate, so that the inner edges thereof will lap the said curb opening as shown.

It will be observed by reference to Fig. 4 the inner edges of the cover plate members lap over the opening in the curb as at $a^x a^x$. Each of the side members a of the sections A has a downwardly and outwardly projecting bracket or lug member D, which when the cover plates are fitted on the curb-stone fits into grooves E cut diagonally into the stone B. By this arrangement it will be manifestly clear that while the sections A A' can be quickly fitted on the stone B with the lugs in engagement with the grooves E, yet so soon as the pump casing is fitted in position as will presently be described, the said cover plate sections cannot be pulled up until after the pump casing is first detached.

F indicates the pump casing, which is secured to the lugs a^2 by screws a^3 . By reference to Fig. 2 it will be seen that the lugs a^2 are so arranged that the inner face or wall of the casing will project over the inner edge of the cover plate, so as to keep the water as it strikes the said side walls from leaking out between the bottom of the casing and the cover plate.

One of the sections (A) of the cover plate has a supplemental aperture G, which is arranged to register with an opening in the curb-stone or cap member D, through which opening is adapted to pass a pipe H with which the roof spouting is connected, whereby the rain water can be conducted into the cistern.

When used in connection with a force pump the cover plate is made circular, and each section is formed with slots A⁵ A⁵ through which are adapted to pass bolts which secure the base or bottom flange of the pump stock to the plates as shown.

From the foregoing taken in connection with the drawings it is thought the advantages of my improvement will be readily ap

parent. It will be seen that by constructing the cover plate in half sections, having each a pendent lock portion arranged as shown, such sections can be quickly fitted down over the curb-stone opening and when the pump casing is secured thereto, will be so securely held that it will be impossible to lift it up from the stone, it being obvious that when the casing is detached a boy can lift the same up from the stone. Furthermore as the inner edges of the plates A A' project inward over the opening, the back water or drippings will not run in between the said plates and the stone, and by making the said plates so as to project onto the said stone it will effectively prevent mice, frogs or other vermin from entering the well and also keep the top of the cistern or well tight and the water in consequence pure.

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

1. As an improvement in cover plates for wells or cisterns, the combination with the apertured curbstone B having the diagonally arranged grooves, and the pump casing, of the cover plate sections A A' having outwardly inclined lugs on their under faces, adapted to fit into the curbstone grooves, and means for

securing the casing onto the plates all substantially as shown and for the purposes described.

2. An improved cover plate for wells or cisterns, having a central opening, and upwardly projecting lugs, arranged adjacent the sides of such openings, and spaced therefrom a distance less than the thickness of the pump casing wall and provided with means whereby it is detachably secured to the curb-stone or cap piece of the well substantially as shown and described.

3. As an improvement in cover plates for wells or cisterns, the combination with the centrally apertured curb-stone B, having diagonally arranged grooves and the pump casing, of the cover plate sections A A', having their inner edges held to lap over the edges of the aperture in the curb-stone said sections having inclined lugs adapted to fit the grooves in the curb-stone and upwardly projecting lugs adapted to clamp on the outer face of the side walls of the pump casing and be secured thereto substantially in the manner shown and for the purposes described.

JAMES FOWLEY.

Witnesses:

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