

S. L. BIGNALL.

PITCHER-PUMP.

No. 180,190.

Patented July 25, 1876.

FIG. 1.

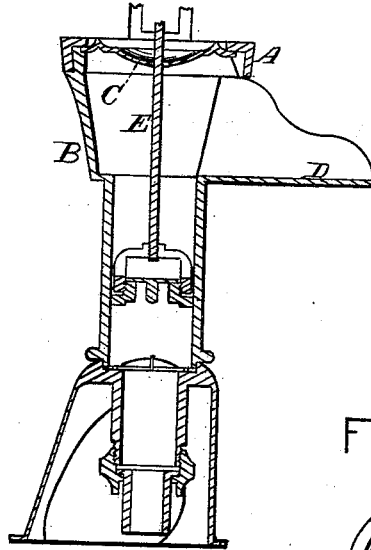


FIG. 3.

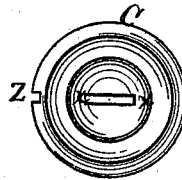
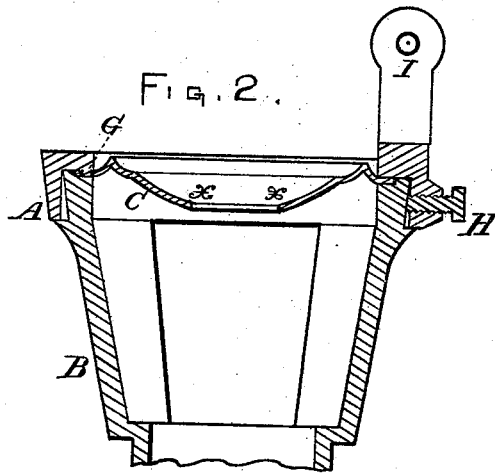


FIG. 2.



ATTEST
C. H. Adix
A. D. Williston.

INVENTOR
Solomon L. Bignall
By G. D. Chapin.

Atty.

UNITED STATES PATENT OFFICE.

SOLOMON L. BIGNALL, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN PITCHER-PUMPS.

Specification forming part of Letters Patent No. **180,190**, dated July 25, 1876; application filed May 8, 1876.

To all whom it may concern:

Be it known that I, SOLOMON L. BIGNALL, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Pitcher-Pumps, of which the following is a specification:

The nature of the present invention consists in an annular head placed between the revolving cap of a pitcher-pump and the spout-section; the plate on its edge being provided with a hole in which a nib or projection on the under side of the cap engages to hold the slot in the head-plate, parallel with the pump-handle, that the piston-rod may have a proper movement.

The object is, by simple means, to provide means for preventing water from being thrown up and out of the pump by the action of the piston.

In the drawings, Figure 1 is a vertical section of a pitcher-pump, taken through the center of the spout. Fig. 2 is an enlarged section, taken transversely to the spout of the pump and parallel to the pump-handle. Fig. 3 is a plan or top view of the head-plate removed from the pump, corresponding in size to Fig. 1.

A represents the revolving cap of a pitcher-

pump of ordinary construction, and B represents the spout-section; D, the spout; E, the piston-rod; H, the set-screw for fastening the cap to section B, and I the support for the pump-handle.

Between the section B and the revolving cap A is formed an annular groove, suitable to support the edge of an annular head-plate, C, which covers the orifice in the top of the pump, except so much as the area of the slot from *x* to *x*, Figs. 2 and 3, for the piston-rod E to work in. In order that the slot may always run parallel with the handle of the pump, a slot Z, Fig. 3, is made in the head-plate, and a nib or projection, G, on the under side of the revolving cap A, engages it and prevents the head-plate from turning.

I do not claim, broadly, the closing of the ends of pitcher or other pumps; but

What I claim is—

The head-plate C, placed between the revolving cap A and the spout-section B, substantially as and for the purpose set forth.

SOLOMON L. BIGNALL.

Witnesses:

G. L. CHAPIN,

THOMAS B. WHITTLESEY.