

A. BREED.

Check-Valves for Wooden Pumps.

No. 137,126.

Patented March 25, 1873.

FIG. 2.

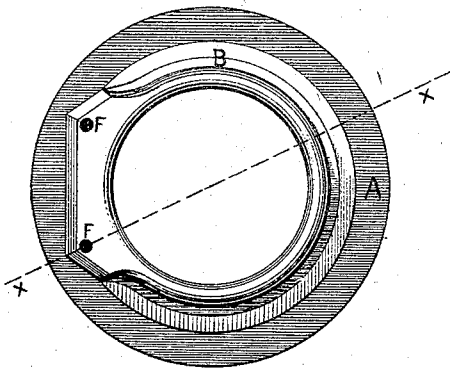


FIG. 3.

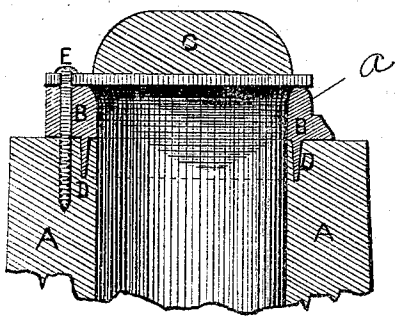
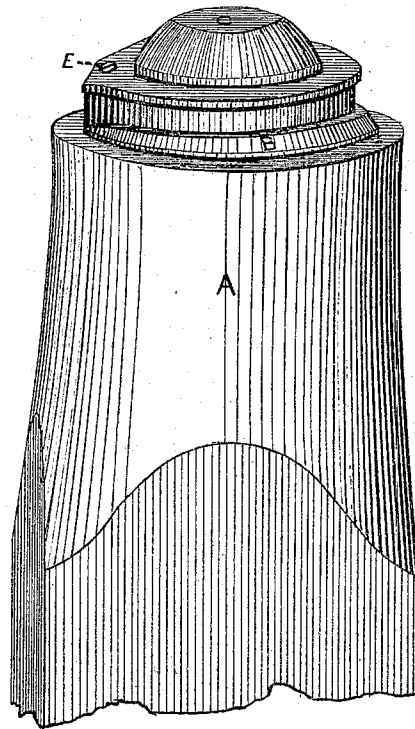


FIG. 1.



WITNESSES:

James Corbin
W. J. Whitmore

INVENTOR:

Amos Breed

UNITED STATES PATENT OFFICE.

AMOS BREED, OF LA HARPE, ILLINOIS.

IMPROVEMENT IN CLACK-VALVES FOR WOODEN PUMPS.

Specification forming part of Letters Patent No. **137,126**, dated March 25, 1873.

To all whom it may concern:

Be it known that I, AMOS BREED, of La Harpe, in the county of Hancock and State of Illinois, have invented certain Improvements in the Bearing and Attachment of Clack-Valves for Wooden Pumps, of which the following is a specification:

My improvement consists in a raised seat or bearing-plate for the clack-valve, made of iron or other suitable material, with a neck or band on the under side of the valve-seat, to be driven into the wood at the upper end of the tubing, which several improvements will be more apparent by a reference to the accompanying drawing, in which—

Figure 1 is a perspective view of the upper end of tubing, where it enters the pump-stock, showing the clack-valve and valve-seat, with its neck or under-band driven into the tubing. Fig. 2 is a plan view of valve-seat with clack-valve taken off. Fig. 3 is a sectional elevation, showing the connection between clack-valve, valve-seat, and tubing, being a section of Fig. 2 cut on the line *x x*.

General Description.

A is any ordinary wood-pump tubing. B is the raised valve-seat. C is the clack-valve. D is the neck or under-band of valve-seat, shown as driven into the wood until the flange

of B has a fair bearing on end of wood. E E are screws or nails to secure the leather of clack-valve and the valve-seat to the tubing. F F are holes cast in the valve-seat to admit E to tubing.

This valve-seat, cast the proper size to suit the bore of tubing, may be used for any wood pump by driving the neck or band D into the tubing, not into the bore. The upper edge of valve-seat is so rounded as to prevent the lodgment of any substance under the leather of valve, thus causing the escape of the water. Should nails, gravel, or any such substances enter the pump from above or be drawn through the clack-valve from below they will be deposited on the end of tubing outside the rim or raised valve-seat and below the clack-valve.

I claim—

The raised rim *a* of the valve-seat B in connection with the neck or under-band D driven into the end of tube A, substantially as shown, and for the purpose of securing a water-tight joint, and preventing the lodgment of substances under the clack-valve; and I disclaim all other parts.

AMOS BREED.

Witnesses:

JAMES CORBIN,
H. J. WHITMORE.