A. BREED.

Wood Pump.

No. 165,914. Patented July 27, 1875.

Fig 1.

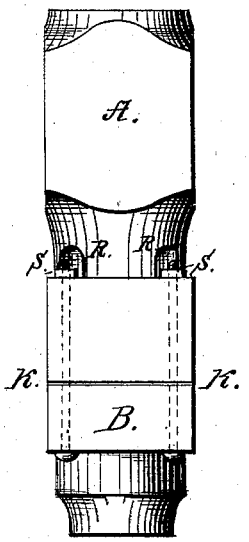


Fig 2.

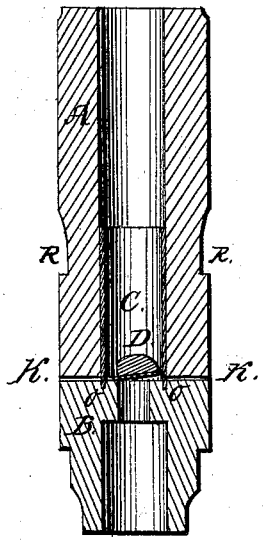
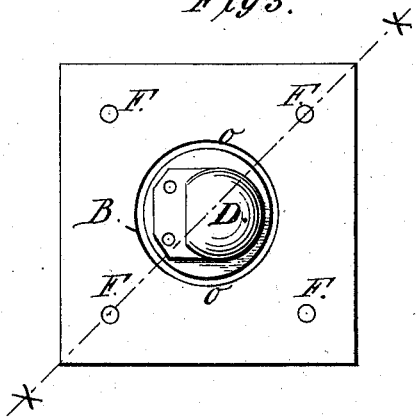


Fig 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

AMOS BREED, OF LA HARPE, ILLINOIS.

IMPROVEMENT IN WOOD PUMPS.

Specification forming part of Letters Patent No. **165,914**, dated July 27, 1875; application filed March 27, 1875.

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 Wood Pumps, of which the following is a specification:

My invention relates to the construction of a wood pump in two parts, arranged so that easy access can be had to the clack-valve by removing nuts from two or more bolts that pass through the two sections, and so that the cylinder may be secured water-tight in the pump-barrel by means of a groove in the lower section of the pump-stock.

Figure 1 is an elevation of the lower part of pump-stock, showing the two sections A and B bolted together. Fig. 2 is a vertical sectional view, showing Fig. 1 with the cylinder clack-valve and lower section cut at the dotted line *x*, as shown in Fig. 3. Fig. 3 is a plan view of the lower section of Figs. 1 and 2, showing the groove for the lower end of the cylinder, holes for the bolts, and the clack-valve attached.

A is the pump-stock, cut in two at *k k*. B is the lower section of the same, and is bored at its lower end the size to receive ordinary tubing, and at its upper end the same size of the bore of ordinary tubing. D is clack-valve attached to the upper end of B, and is made to cover the bore and fit water-tight, and perform the same office as if attached to the upper end of the tubing in the ordinary manner. C is a metallic cylinder, made to fit the bore of the pump-stock A, and projects below the line of connection *k k*, between sections A and B, and enters the groove *o o*.

Fig. 2 shows the projecting end of the cylinder C inserted into the groove *o o* in the upper end of section B, near the line of connection *k k*, between section A and B.

o o in Fig. 3 is the groove made to receive the lower end of cylinder C. F F F F are holes to receive bolts *s s*. R R are recesses cut in the pump-stock A, to admit nuts on bolts *s s*. *s s* are bolts provided with heads on their lower ends and nuts on their upper ends, and made to pass through holes F F F F and receive the nuts at R R, as shown in Fig. 2, and thus securely hold the sections A and B of pump A together.

I claim—

In a metal-lined wood pump made in two sections, A and B, suitably secured together, the lining C, made to enter a groove in the section B, and inclose the clack-valve upon the upper face of said section, substantially as and for the purpose described.

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Witnesses:

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