

(No Model.)

C. POWELL.

PUMP.

No. 260,121.

Patented June 27, 1882.

Fig. 1.

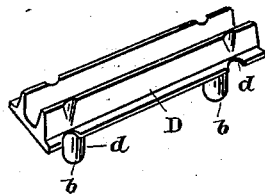
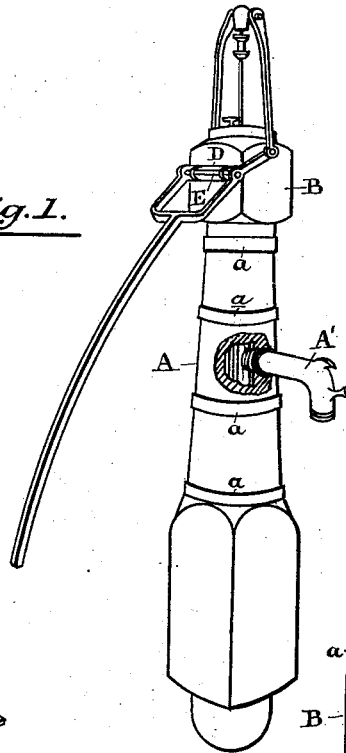
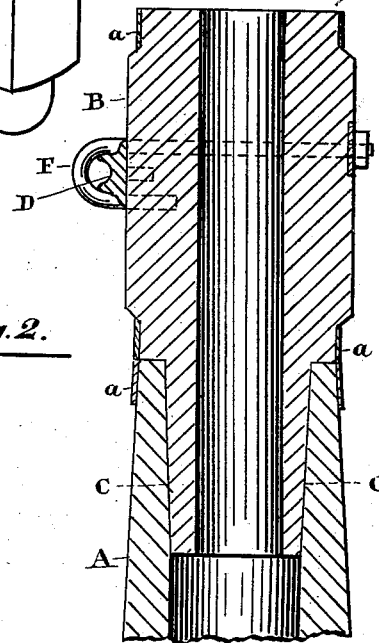


Fig. 3.

Fig. 2.



Witnesses

C. W. Baldwin.

H. H. Warren.

Inventor.

Charles Powell  
by Richard, Atty &  
AWT.

# UNITED STATES PATENT OFFICE.

CHARLES POWELL, OF TORONTO, ONTARIO, CANADA.

## PUMP.

SPECIFICATION forming part of Letters Patent No. 260,121, dated June 27, 1882.

Application filed January 26, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES POWELL, a subject of the Queen of Great Britain, residing at the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Pumps, of which the following is a specification.

The object of the invention is to produce a cheaply-constructed wooden pump with its body banded by hoops, and having a head to receive the bearing-box of the pump-handle, together with other improvements designed to simplify and improve the construction of the pump; and it consists, first, in forming the body of the pump to receive strengthening bands or hoops, and providing it with a head or block arranged to carry the bearing of the pump-handle, and having a neck fitting and compressed into a recess formed in the top of the pump-body; secondly, in a peculiarly-formed bearing-box for the pivotal rod of the pump-handle, arranged with a fastening designed to simultaneously hold the pivotal rod and bearing-box in their respective positions.

In the drawings, Figure 1 is a perspective view of my improved wooden pump; and Fig. 2 is a sectional detail, showing the connection between the pump body and its head. Fig. 3 is a perspective detail of my improved metal bearing for the pivotal rod of pump-handle.

A is the body of the pump, tapered upwardly from its base to receive the strengthening hoops or rings *a*, the spout *A'* being made detachable in order to facilitate the placing of the strengthening-hoops in position, said spout being secured in place by any of the well-known ways.

B is the pump-head, provided with a neck, *C*, fitted and compressed into the recess formed in the top of the pump-body, as shown in Fig. 2. By providing a pump with a detachable head of this kind it will be seen that the strengthening hoops or bands *a* may be first driven onto the body of the pump and afterward the head forced into it, which head may therefore be rectangular-shaped, or of such suitable enlarged size as will better provide a support for the bearing-box D.

E is the pivotal rod of the pump-handle, rigidly secured to the same, and fitting into the horizontal groove formed on the face of

the bearing-box D. This bearing-box is provided with projecting studs *b* on the opposite side to that upon which the groove is formed. These studs are designed to fit into holes made in the pump-head B to hold the bearing-box in its required position.

*d* are notches cut in the edges of the bearing-box D, and are designed to admit the holdfast-bolts F. These bolts are preferably made a hook form, as shown in Fig. 2, the short end of the hook fitting into a hole made in the pump-head, while the long end passes through the pump-head and is secured on its opposite side by a nut, an iron washer being preferably placed below the said nut. Two of these bolts are provided for holding the bearing-box in position; but of course more may be used, if desired. The hooked ends of the bolts F pass over the bearing-box D, fitting, as before said, into the notches *d*, and at the same time they form caps to retain the pivotal rod E in the horizontal groove of the bearing-box. When the holdfast-bolts F are drawn in position by tightening their nuts their hooked ends will in a measure compress against the pivotal rod E. In this manner the tightening of the holdfast-bolts not only retains the bearing-box in its position, but simultaneously grasps and tightens the pivotal rod of the pump-handle.

It is evident that the bearing-box can be secured to the pump-stock at any height, according to the kind of handle used.

What I claim is—

1. The tapering wooden stock A, provided with bands *a*, and with a detachable spout, *A'*, in combination with the enlarged head B, adapted to carry the pivotal box of the pump-lever, and provided with a neck to fit into a recess in the top of the pump-stock, substantially as described.

2. The combination, with the wooden stock A, having a recess in its upper end, of the enlarged head B, provided with a neck to fit into the recess in the stock, and adapted to support the pump-handle, substantially as described.

3. The combination, with a wooden pump and the bearing-box D, having a horizontal groove, of the hook-bolts F, handle-rod E, and means, substantially as described, to prevent the lateral movement of the bearing-box, as and for the purpose specified.

4. In a wooden pump provided with a swing-

- ing handle for operating the plunger-rod, a metal bearing-box having a horizontal groove formed in its front surface to receive the pivotal rod of the pump-handle, and projecting studs on its opposite side to fit into the wood-  
5 work of the pump, in combination with a fastening arranged to simultaneously hold the pivotal rod and bearing-box in their respective positions.
- 10 5. In a wooden pump provided with a swinging handle for operating the plunger-rod, a metal bearing-box having a horizontal groove formed in its front surface to receive the pivotal rod which supports the pump-handle, in combination with a fastening arranged to si- 15 multaneously hold the pivotal rod and bearing-box in their respective positions.

CHARLES POWELL.

Witnesses:

C. W. BALDWIN,  
H. H. WARREN.