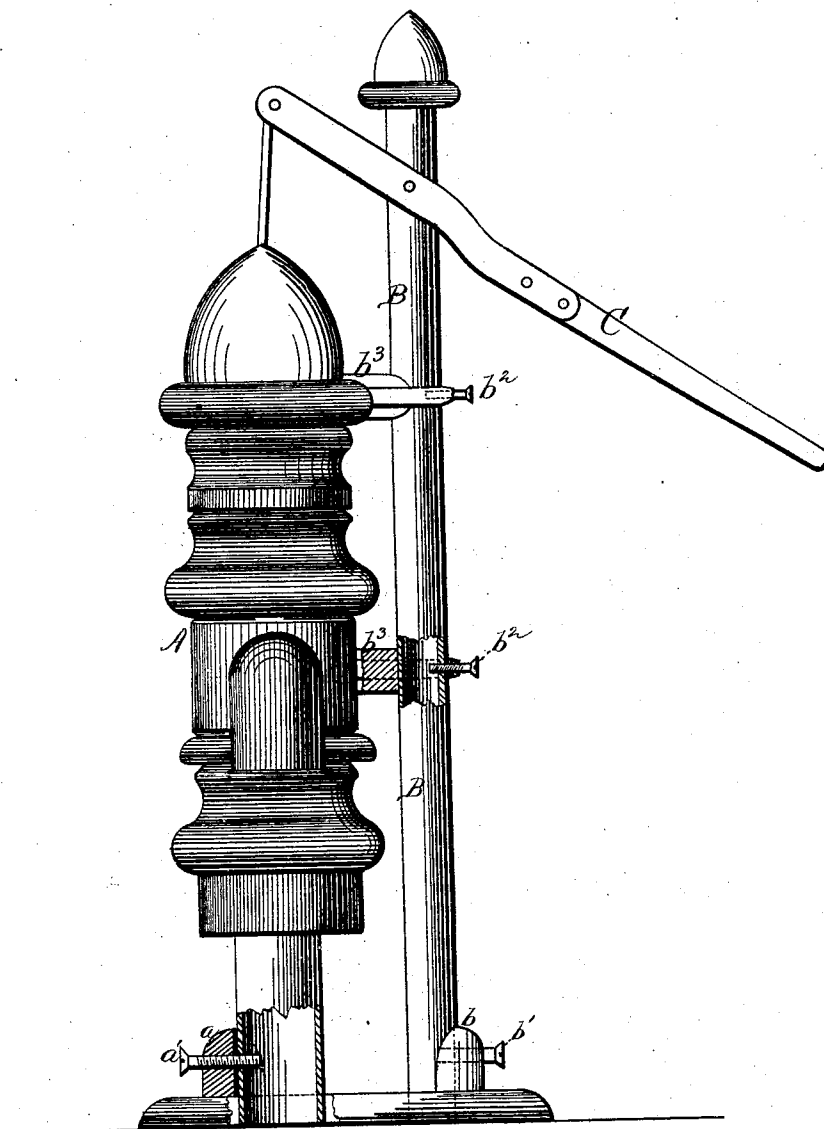


C. W. SHOLES & H. C. KELLY.

Pumps.

No. 145,247.

Patented Dec. 2, 1873.



Witnesses

Jas. C. Hutchinson
J. H. Water

Inventors

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UNITED STATES PATENT OFFICE

CHIPMAN W. SHOLES AND HENRY C. KELLY, OF MORRISON, ILLINOIS.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. 145,247, dated December 2, 1873; application filed March 31, 1873.

To all whom it may concern:

Be it known that we, C. W. SHOLES and H. C. KELLY, residing in Morrison, in the county of Whitesides and State of Illinois, have invented a new and useful Improvement in Pumps, of which the following is a full, clear, and exact description, reference being had to the annexed drawing forming part of this description, and in which the figure illustrates a front view of our improved pump.

This invention relates to improvements in pumps; and it consists of the combination and arrangement of the parts thereof, as hereinafter described and claimed.

To enable others to make and use our invention, we will proceed to describe it.

The pump-stock or body A, to facilitate its vertical adjustment, is supplied at its lower portion with a smooth and regular surface, which is of less diameter or thickness than its upper portion, and which enters the well. In close proximity with the reduced end of the pump-stock is disposed a short upright, *a*, through which passes a set or binding screw, *a'*, entering or abutting against the pump-stock. This is one way by which the pump is made vertically adjustable, while the same end can be attained by using, in lieu of the binding-screw, a wedge, cam, eccentric, or other equivalent means. B refers to a standard, which can be made hollow or solid, and which is also vertically adjustable through the mechanism composed of the upright *b* and set-screw *b'*, the set-screws *b² b³* and the lateral projections *b³ b³* having rings embracing the said standard, the projections being secured, in any known way, to the pump-stock. This standard acts as a brace to the pump for assisting in holding it in an upright position, it being connected to the pump as above stated. Through it the pump-handle C, for which it also forms a bearing, can be adjusted in a vertical plane to any desired point. The fulcrumed end of the pump-handle is bifurcated, so as to embrace the standard B, and thereby augmented in its strength.

The object of rendering the pump vertically adjustable is, first, to permit of the spout being elevated to any suitable point so as to accommodate the placing thereunder of vessels

or receptacles of various heights or capacities, as found desirable, particularly in watering stock. This feature, of course, avoids the necessity of elevating the pump-platform for that purpose. The second reason for making the pump adjustable is, to enable it to be properly set in the well, as will appear from the following: In certain sections of the country it is very difficult, indeed almost impossible, to get the exact depth of the well with the tape-line, or other measuring-instrument used for this purpose, in consequence of its great depth and rocky bottom. Such being the case, great trouble and difficulty have been experienced in getting the barrel or body of the pump, after allowing for the screwing of the sections thereof together, to rest on the bottom of the well, and, at the same time, to rest at the proper point upon its surface against or upon the pump-platform at the top of the well. This objection to the proper setting of the pump in place is overcome by us, by reason of our being able to make an allowance of a number of inches in the sinking of the pump through the adjusting mechanism, and still secure it at the point desired, and so as to reach the bottom of the well.

Through the adjustability of the standard connected to the pump and handle the stroke of the pump-piston can be changed without altering the length of the piston-rod, and the handle adapted to the reach of persons of different statures.

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

The pump-stock A, and standard B *b² b³* secured adjustably to the platform or cover of the well, as shown, in combination with the handle C, substantially as and for the purpose specified.

In testimony whereof we have hereunto signed our names this 20th day of March, 1873, in presence of two subscribing witnesses.

CHIPMAN W. SHOLES.
HENRY C. KELLY.

Witnesses:

J. W. GOULD,
W. E. SAVAGE.