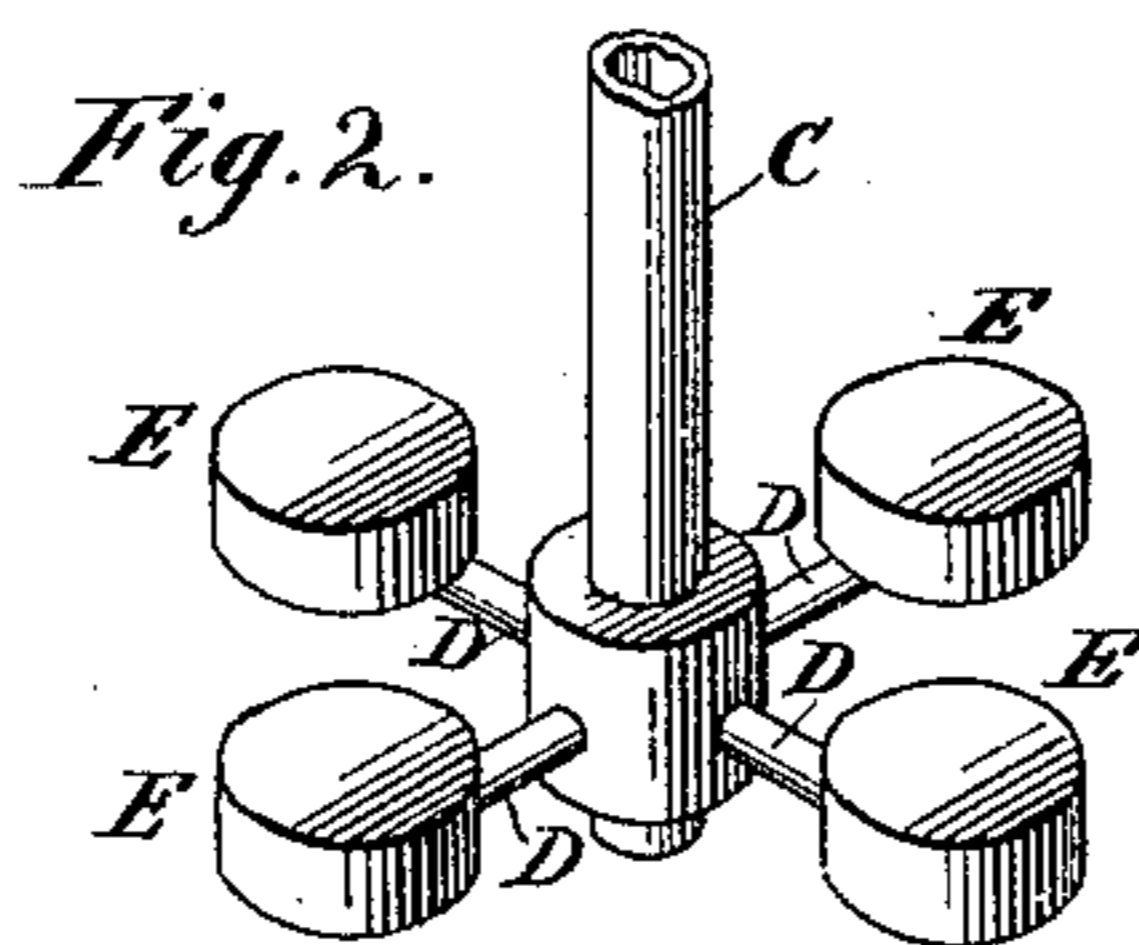
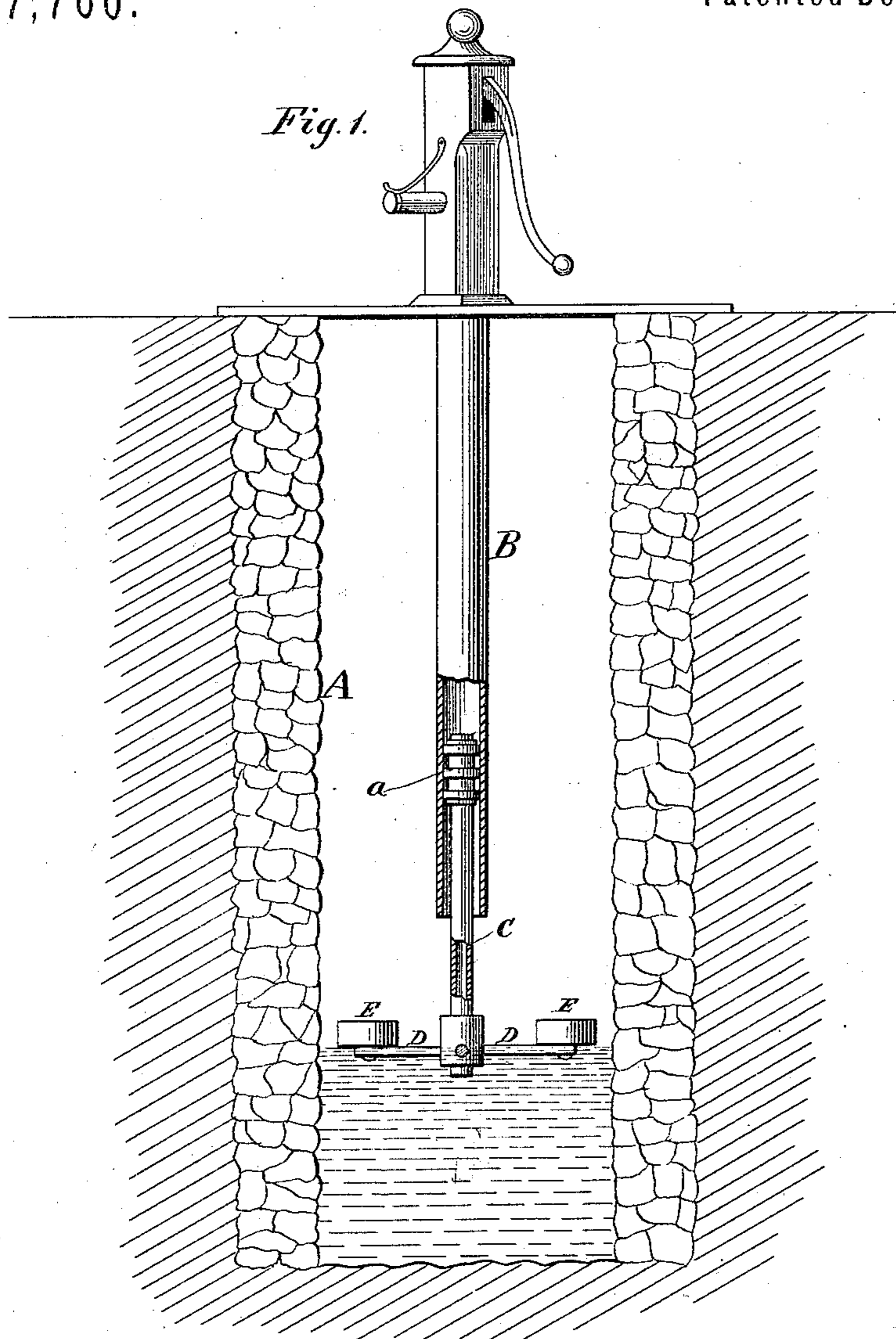


T. J. REAMY.

Pumps.

No. 157,760.

Patented Dec. 15, 1874.



Witnesses:
H. H. Du Hamel
Thomas Byrne

Inventor:
Thos. J. Reamy.
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Attorney.

UNITED STATES PATENT OFFICE.

THOMAS J. REAMY, OF BALTIMORE, MARYLAND, ASSIGNOR OF ONE-HALF
HIS RIGHT TO WILLIAM R. MILLER, OF SAME PLACE.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. **157,760**, dated December 15, 1874; application filed
November 9, 1874.

To all whom it may concern:

Be it known that I, THOMAS J. REAMY, of Baltimore, county of Baltimore and State of Maryland, have invented certain new and useful Improvements in Pumps for Wells, of which the following is a specification:

It is a well-known fact that when a bucket is used to take water from a well the water in the well will remain sweet and good for use; but when a pump is used the water in the well soon becomes spoiled, and necessitates the labor and expense of pumping the well dry and cleaning the well out. The cause of this is that the bucket takes the water from the top—that is, farthest from the source of supply; but the pumps generally in use take the water from the bottom, or directly contiguous to the source of supply, leaving the surplus water to accumulate above, where it soon becomes tainted and bad.

The object of my invention is to obviate this difficulty in the use of pumps in wells, and allow of the water being pumped out from the top; and to this end the nature of my invention consists in a vertical pipe, provided with suitable floats, placed in a well, and the upper end of said pipe extending into the lower end of the pump-stock, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a section of a well, showing a side view of a pump embodying my invention. Fig. 2 is a perspective view of the vertical pipe with its floats.

A represents a well, and B is the stock of

a pump placed therein, for pumping out the water. The pump-stock B is so arranged that it will not reach the water in the well, no matter how high it may be therein. C represents a pipe of any suitable length, and of smaller outside diameter than the interior diameter of the pump-stock B. On the lower portion of the pipe C are attached horizontal arms D D, each provided with a float, E, so as to float upon the surface of the water in the well. The arms D D may be adjustable up and down on the pipe C by means of nuts or other suitable devices, so as to hold the lower end of said pipe any desired distance below the surface of the water. The pipe C extends up into the pump-stock B, and around the upper end of said pipe C is a packing-ring, *a*, which should fit in and make an air-tight joint with the pump-stock, and yet allow the pipe to adjust itself freely up and down therein, according to the height of water in the well.

By the use of this device the water is always pumped from the top or surface, and thereby all accumulation of old water is prevented, and the well will always remain sweet.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with the pump-stock B, of the self-adjusting pipe C, provided with packing *a* at its upper end and floats E at its lower end, for the purposes herein set forth.

In testimony that I claim the foregoing as my invention I hereunto affix my signature this 2d day of November, 1874.

THOMAS J. REAMY.

Witnesses:

W. K. DU HAMEL,
THOMAS BYRNE.