

M. J. Althouse,

Pump Cylinder,

N^o 56,871.

Patented Aug. 7, 1866.

Fig. 1.

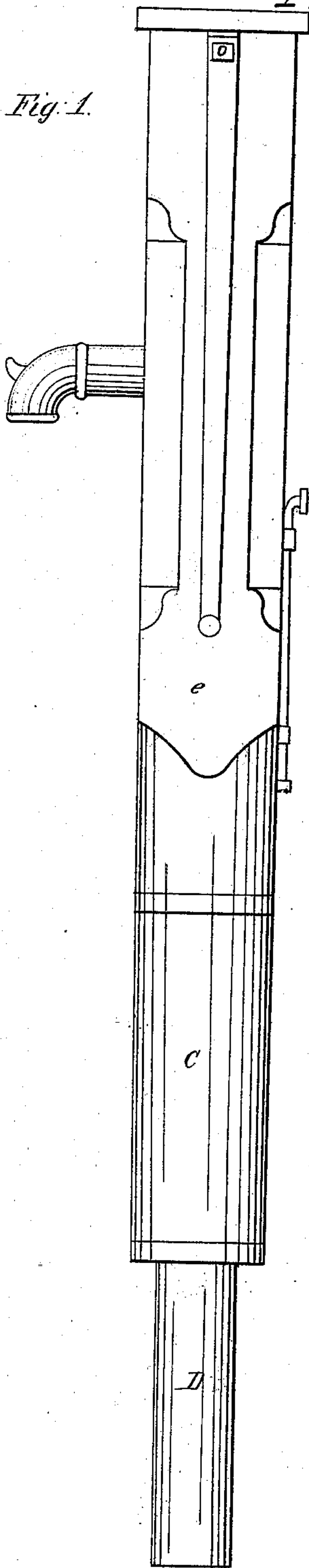


Fig. 3.

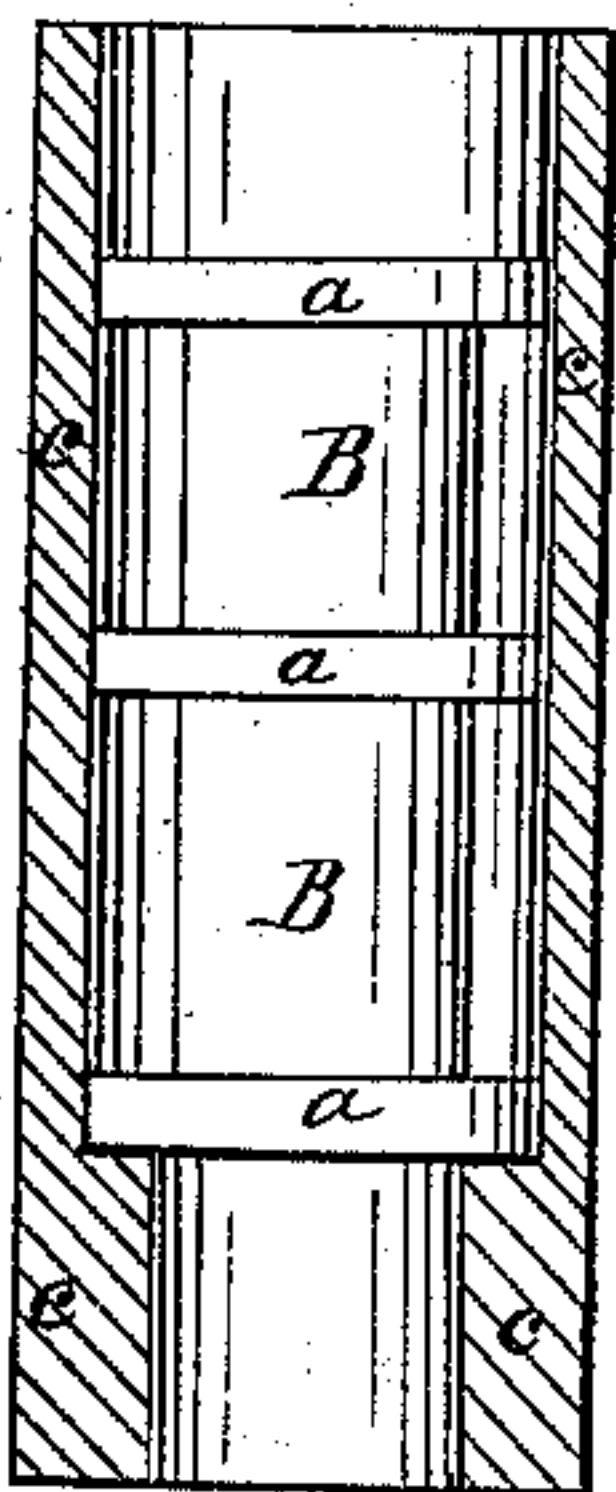
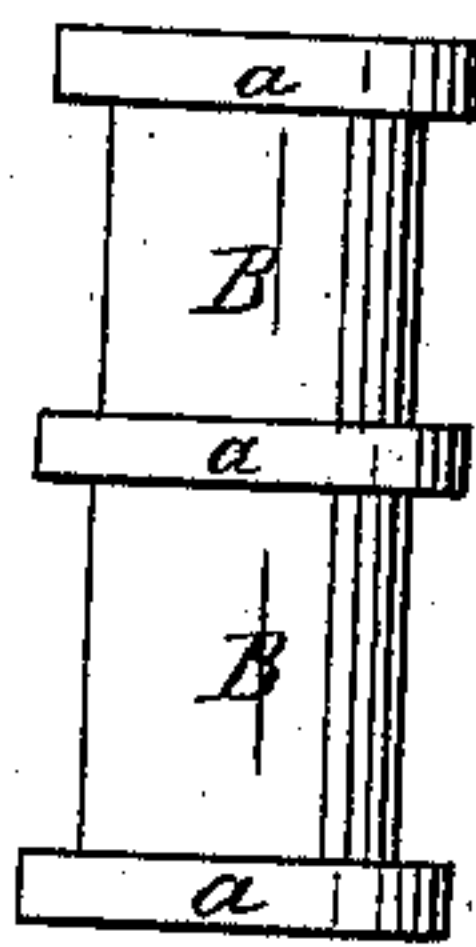


Fig. 2.



Witnesses;
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UNITED STATES PATENT OFFICE.

M. J. ALTHOUSE, OF WAUPUN, WISCONSIN.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. 56,871, dated August 7, 1866.

To all whom it may concern:

Be it known that I, M. J. ALTHOUSE, of the village of Waupun, in the county of Fond du Lac and State of Wisconsin, have invented a new and improved mode of connecting or inserting a glass, stone, or metallic barrel into wooden pumps; and I do declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 represents a wooden pump-top, *e*, with a barrel attached, *C*, and a short piece of tubing, *D*. Fig. 2 represents the inner barrel, *B B*, and the packing-rings *a a a*. Fig. 3 represents the outside barrel, *C C*, the inside barrel, *B B*, and the packing-rings *a a a*.

The nature of my invention consists in the introduction of a glass, stone, or a metallic tube or barrel into the barrel of a wooden pump in such a manner as to admit of its being tightly packed and firmly held in its place by rubber or other elastic rings, thereby forming a water or air tight joint between the two barrels, as seen in Fig. 3, and also effectually guarding the inner barrel against getting loose by expansion or contraction of the outer barrel.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct the outside barrel for my pump

in the usual manner, or form on the outside and then bore or ream it out larger than the inside barrel, so as to be able to put a packing-ring between the two barrels, as shown in Fig. 3, *a a a*. The inside tube being formed of the proper size and length, the rubber rings are placed on it at their proper places, as shown in Fig. 2, *a a a*; and it is then inserted into the wooden barrel, as shown in Fig. 3.

The object of this arrangement is to obtain a barrel that shall be perfectly smooth, durable, and not liable to get out of order.

I am aware that pump-barrels have been lined but have not remained tight, owing to the contraction and expansion of the barrels; but with my elastic rings this difficulty is fully obviated, not only in making them perfectly tight but in retaining them in their proper place.

After thus fully describing the construction and operation of my invention, what I claim as new, and desire to secure by Letters Patent, is—

The inserting of a glass, stone, or metallic tube or lining into the barrel of a wooden pump, and firmly holding it there by means of rubber or other elastic rings, in the manner and for the purpose heretofore set forth.

M. J. ALTHOUSE.

Witnesses:

T. T. PROSSER,
P. A. HOYNE.