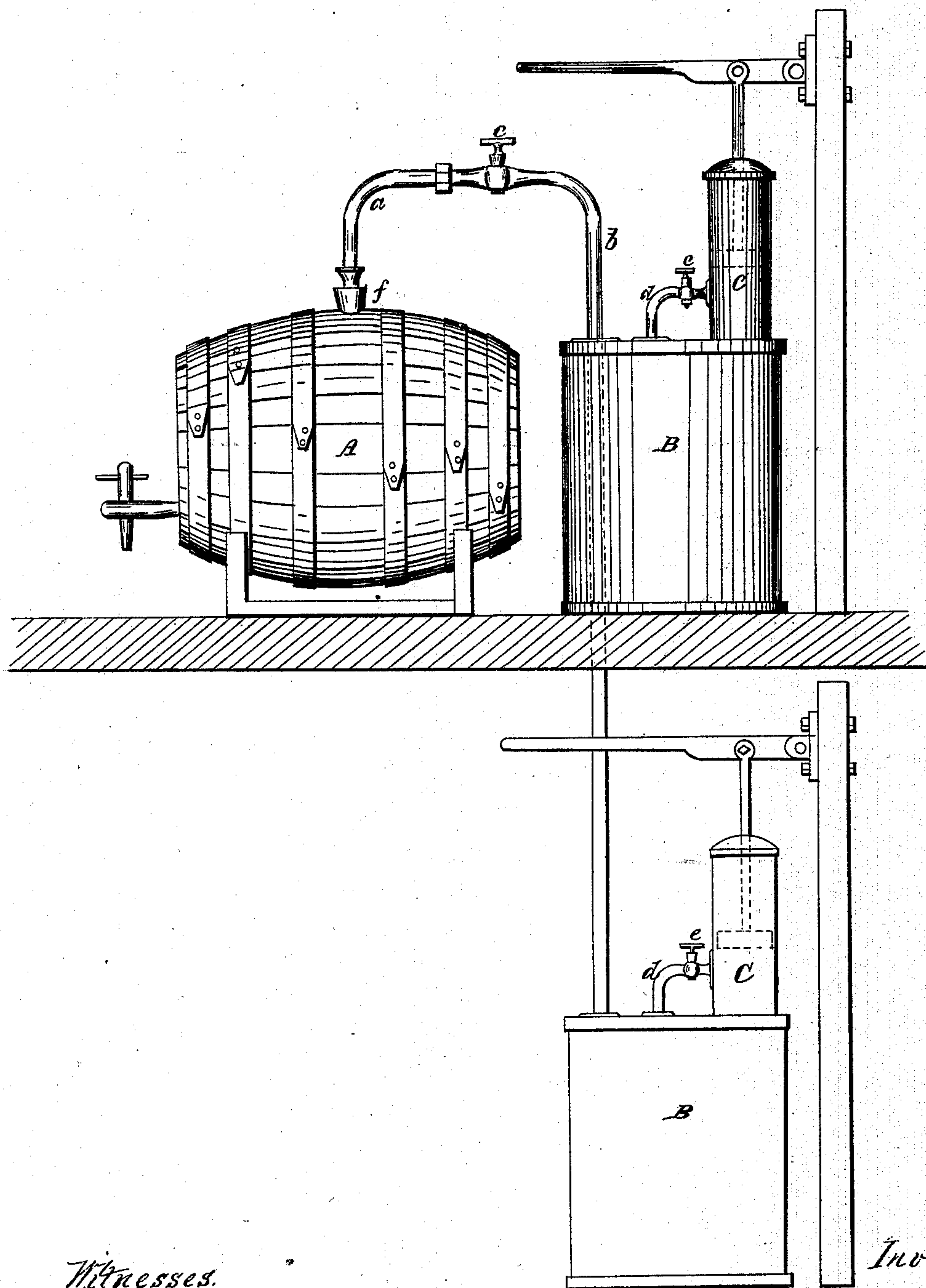


H. MITTENDORF.
Preserving Liquors.

No. 69,013.

Patented Sept. 17, 1867.



Witnesses.
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HENRY MITTENDORF, OF YORK, PENNSYLVANIA.

Letters Patent No. 69,013, dated September 17, 1867.

IMPROVED APPARATUS FOR DRAWING AND PRESERVING MALT LIQUORS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, HENRY MITTENDORF, of the city and county of York, in the State of Pennsylvania, have invented a new and useful improvement in Drawing and Preserving Malt Liquors; and I do hereby declare the following to be a full and correct description of the same, sufficient to enable others skilled in the art to which my invention appertains to understand and use the same, reference being had to the accompanying drawing, which makes part of this specification, and which represents a side elevation of my invention, a modification being shown in red lines.

The nature of my invention consists in the use of an air-reservoir, to which an air-pump is connected, and which is so connected to the barrel containing the malt liquor that a pressure is exerted upon the liquid which will force it from the barrel when the faucet is opened, and at the same time prevent the gases from escaping through the bung-hole, and thus render the malt liquor flat and stale.

A, in the drawings, represents a barrel, to contain beer, ale, or any other malt liquor, or cider. B is an air-reservoir, constructed of any suitable material, provided at its top with a pipe, *b*, which connects it to the barrel A. The part *a* of this pipe *b* may be made of India rubber, so as to allow the barrel to be moved by tipping it; and the rigid part of the pipe is provided with a stop-cock, *c*, which enables the communication between the barrel A and air-reservoir B to be shut off. C represents an air-pump, attached to the top of the reservoir, and connected to the same by means of a pipe, *d*, which is provided with a stop-cock, *e*.

It is well known that when beer, ale, cider, &c., is tapped from the barrel by the glassful, and the customary hole bored in the barrel, or the bung loosened to allow the air to enter, so that the liquor may be drawn off, the gases which give the life and effervescence to the same escape, and, unless the barrel is emptied very soon, a great portion of the liquor becomes flat and stale, so that the liquor drawn off first is greatly superior to that drawn off last. To prevent this, and to keep the liquor in equal strength and taste, is the purpose of my invention. The air-reservoir A must be placed behind or above the barrel, in an adjoining room, or in the cellar, as shown in red lines. The stop-cock *c* is closed, and the reservoir B filled with air by means of the air-pump C, the stop-cock *e* being opened. When sufficient air has been pumped into the reservoir B the stop-cock *e* is closed, and the communication between the air-pump and reservoir shut off. When the barrel has been placed in position and the bung knocked out, the metal plug *f* at the end of the pipe *a* is driven into the bung-hole, which is thereby closed air-tight. The stop-cock *c* is now opened, and the pressure of the air allowed to act on the liquor as it is drawn off. But little pressure is required, and if it is found that more is needed, a few strokes of the air-pump after the stop-cock *e* is opened will supply the deficiency, and thus the gas which gives the life and effervescence to the liquor is retained in the same, and still air forced into the barrel to allow the liquor to be drawn off.

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

1. The herein-described mode of drawing and preserving malt liquors, cider, &c., by means of an air-reservoir, substantially as set forth.
2. The apparatus for drawing and preserving malt liquors, cider, &c., consisting of the air-reservoir B, air-pump C, pipes *a*, *b*, and *d*, provided with stop-cocks *c* and *e*, substantially as described.

The above specification of my improvement in drawing and preserving malt liquors, &c., signed this thirtieth day of May, 1867

H. MITTENDORF.

Witnesses:

ALEX. A. C. KLAUCKE,
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