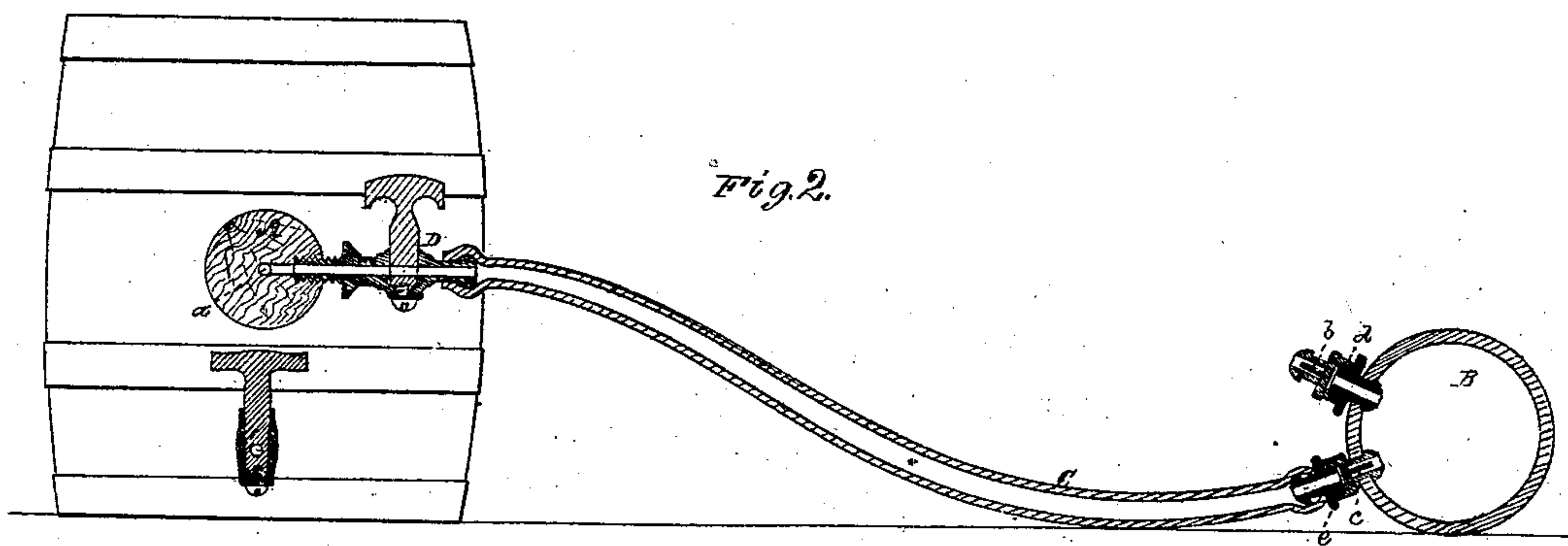
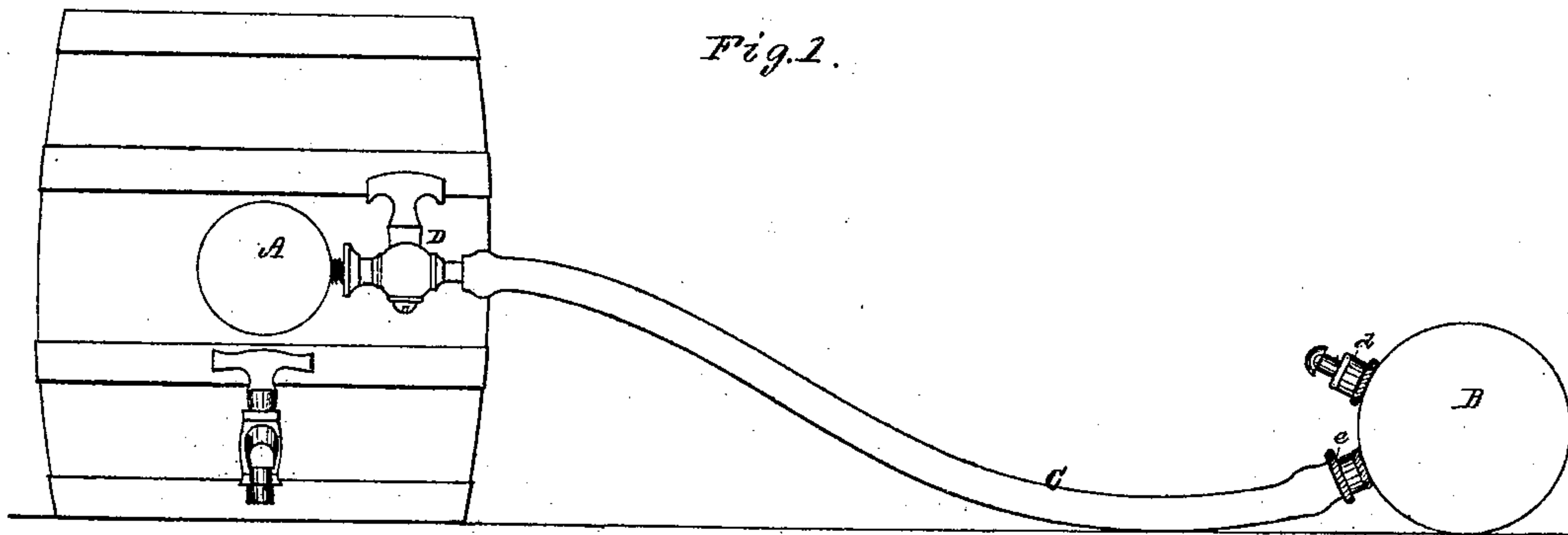


JOSEPH METZGER.

Improvement in Apparatus for Aerating Beer-Barrels.

No. 114,839

Patented May 16, 1871.



Witnesses.

S. W. Piper

L. N. Moore

J. Metzger.

by his attorney.

N. H. Eddy

United States Patent Office.

JOSEPH METZGER, OF EAST CAMBRIDGE, MASSACHUSETTS.

Letters Patent No. 114,839, dated May 16, 1871.

IMPROVEMENT IN APPARATUS FOR AERATING BEER-BARRELS.

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

To all persons to whom these presents may come :

Be it known that I, JOSEPH METZGER, of East Cambridge, of the county of Middlesex and State of Massachusetts, have invented a new and useful Apparatus for Aerating Beer-Barrels; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a front elevation of a barrel with such apparatus applied to it.

Figure 2 is a longitudinal section of the apparatus.

I have found that lager-beer will be hindered from fermenting or turning acid by keeping it under pressure of condensed air, such being also advantageous in other respects.

I have, therefore, inserted a portable apparatus for stopping the bung-hole of a beer-barrel, and for charging such barrel with air.

The said apparatus consists—

First, of a bung or stopper, A, to be driven or fixed in the bung-hole.

Second, of an elastic-bulb air-pump, B, a flexile eduction-pipe, C, and a stop-cock, D, the latter being inserted in the bung, and such being made with a passage, *a*, to lead from the stop-cock to and through the lesser end of the bung.

The elastic-bulb air-pump has valves *b c* in its in-

duction and eduction-tubes *d e*, the same being so as to enable air, by the expansion of the bulb, to be drawn through the induct thereof, and to be expelled from the bulb through its educt by the contraction of the said bulb, the air thus driven from the bulb being forced through the conduit and stop-cock (when the latter is open) and thence through the bung.

The purpose of the stop-cock is to prevent the escape of air or liquid from the cask or barrel into the long flexile tube and to the valve of the elastic bulb.

The apparatus can be readily applied to a cask by inserting the bung and driving it into the hole for its reception.

To charge the cask with air it will only be necessary to grasp the bulb in one hand and repeatedly contract it, leaving it to expand after each contraction.

I claim—

1. The combination and arrangement of the bung and the air-forcing and estopping apparatus, as described.

2. The combination of the barrel or cask, the bung, and the air-forcing and estopping apparatus, as described, applied together, as set forth.

JOSEPH METZGER.

Witnesses:

R. H. EDDY,

S. N. PIPER.