

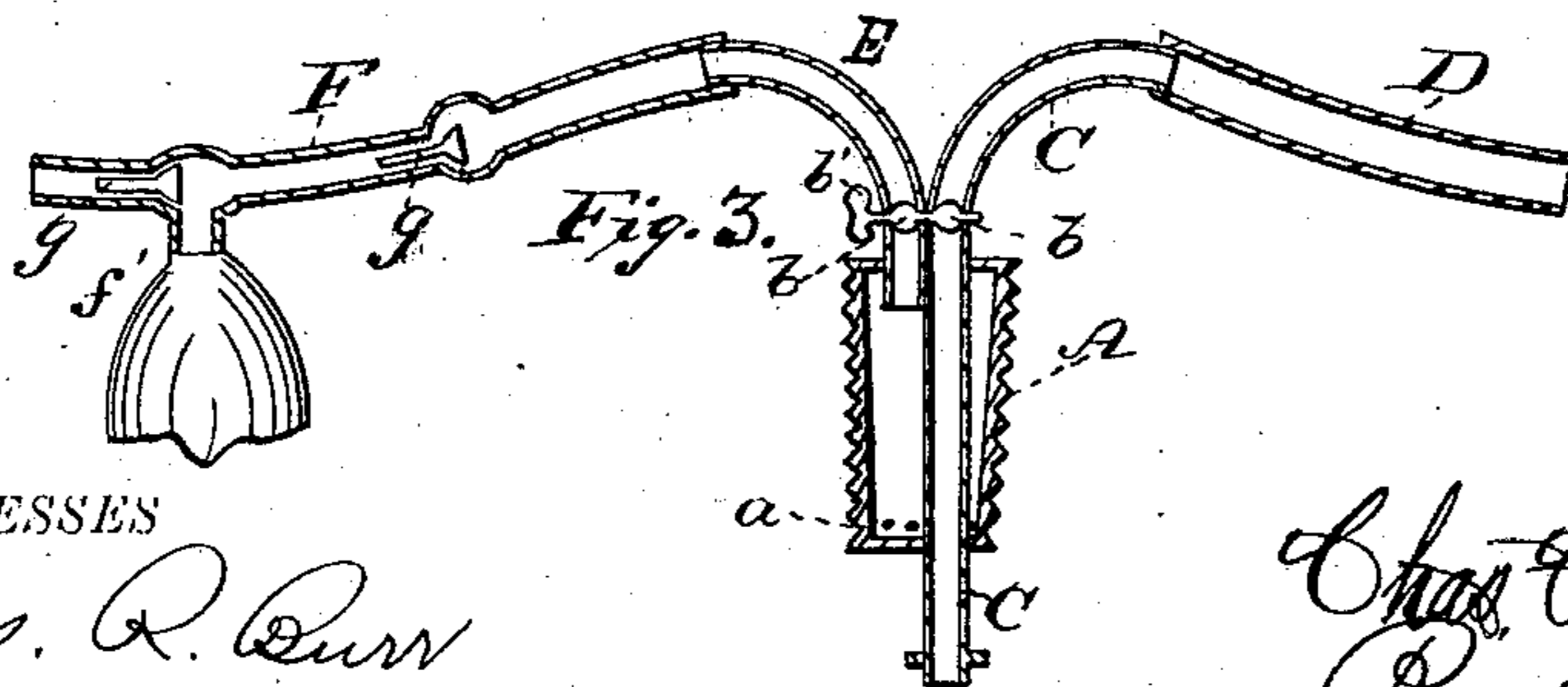
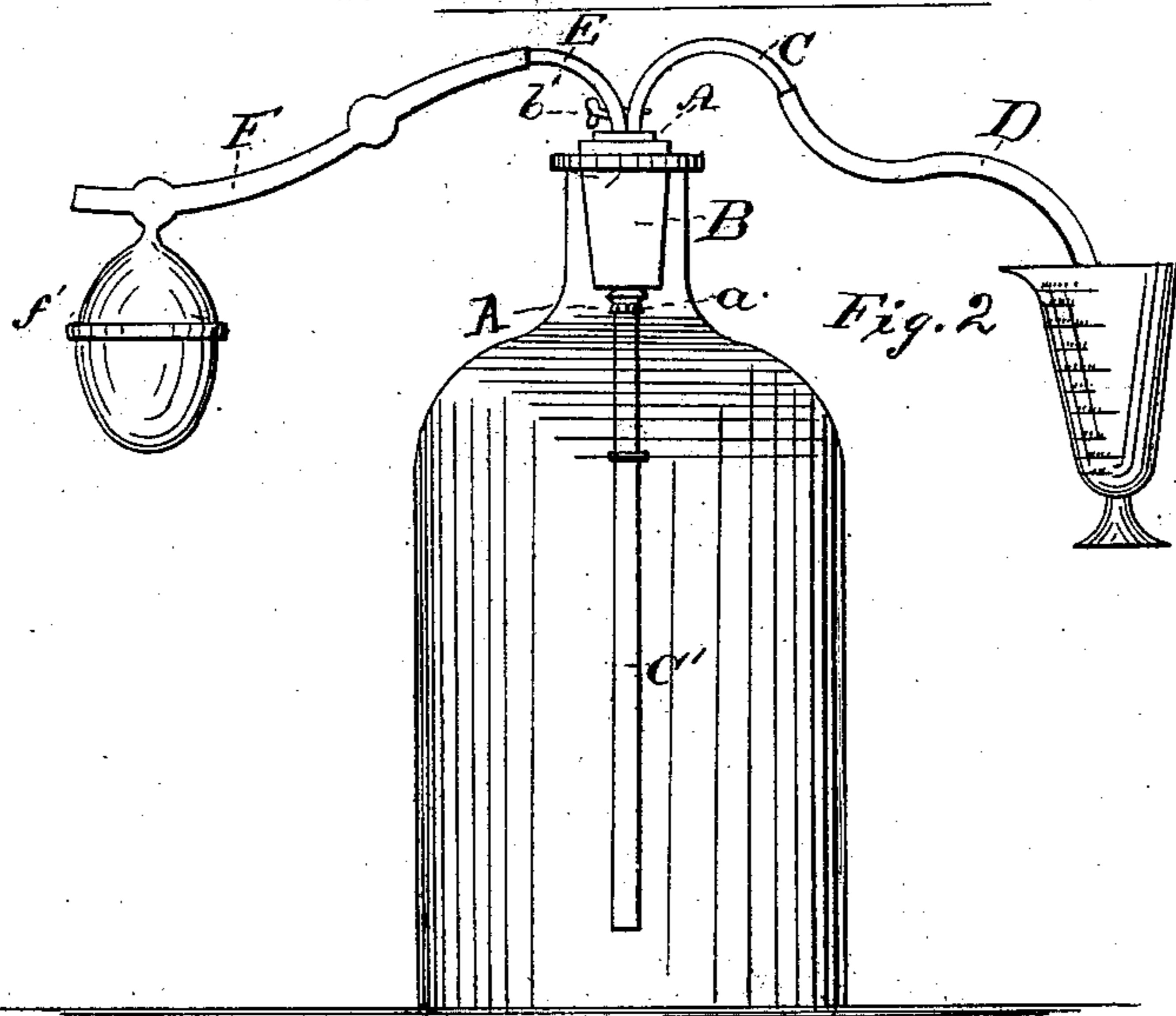
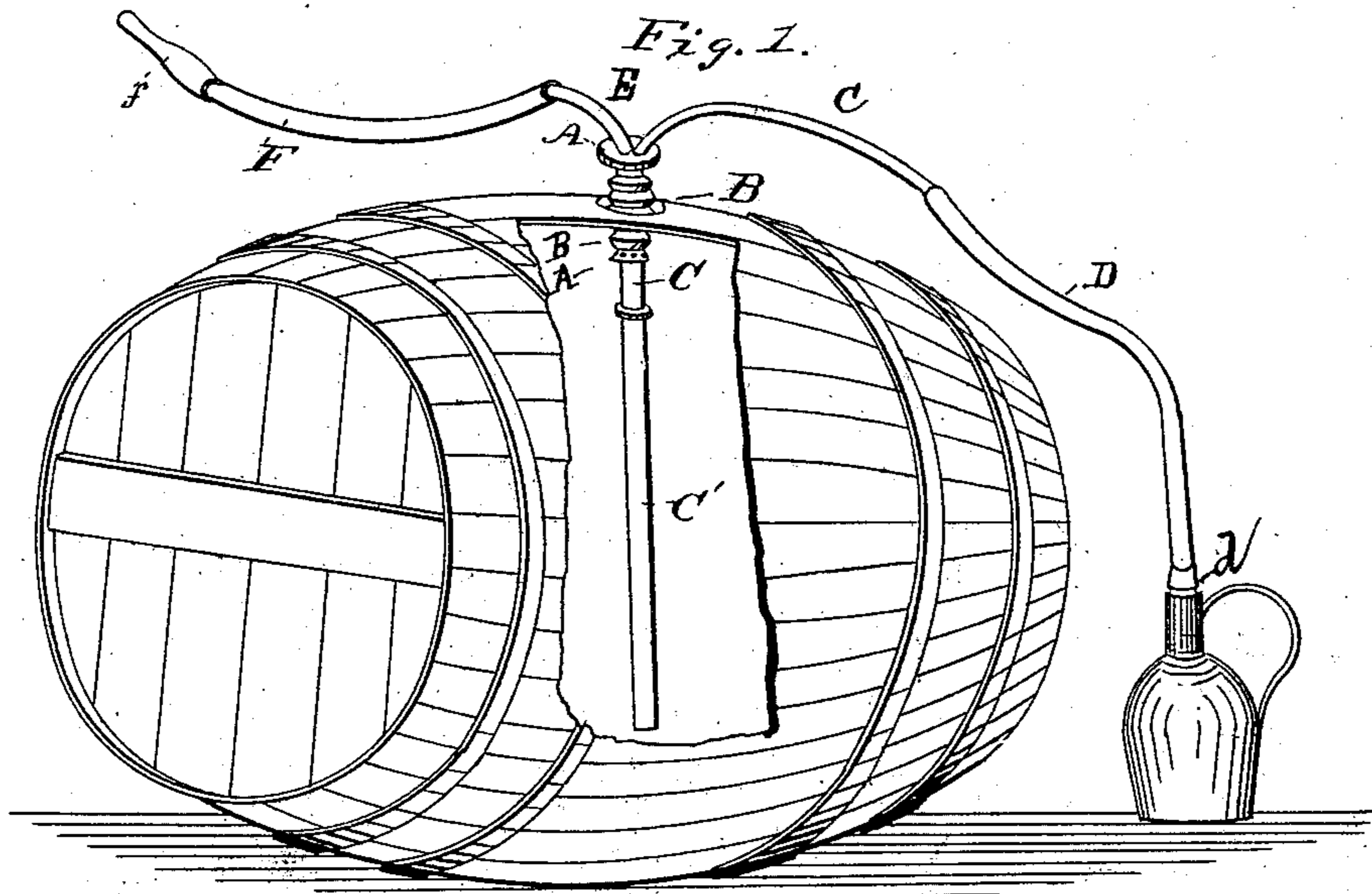
(No Model.)

C. C. REDMOND.

APPARATUS FOR FILLING BOTTLES, LAMPS, &c.

No. 281,396.

Patented July 17, 1883.



WITNESSES

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CHARLES C. REDMOND, OF SAN JOSÉ, CALIFORNIA.

APPARATUS FOR FILLING BOTTLES, LAMPS, &c.

SPECIFICATION forming part of Letters Patent No. 281,396, dated July 17, 1883.

Application filed March 16, 1883. (No model.)

To all whom it may concern:

Be it known that I, C. C. REDMOND, a citizen of the United States of America, residing at San José, in the county of Santa Clara and State of California, have invented certain new and useful Improvements in Siphons, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to a certain improvement in apparatus for filling bottles, lamps, demijohns, &c., from barrels, jars, cans, casks, &c.; and it consists of means for forcing the liquid from the latter into the former, substantially as hereinafter more fully set forth.

15 In the accompanying drawings, Figure 1 is a perspective view of my apparatus as applied to a barrel, a portion of the latter being broken away. Fig. 2 is a side view of the same applied to a jar; and Fig. 3 is a sectional view thereof, a section of the discharge-pipe being removed.

20 A is a screw-threaded nozzle or tube, which is screwed into a rubber packing or plug, B, the plug being tightly inserted by pressure into the bung-hole, or other suitable orifice, in the side of the barrel or cask to render the cask air-tight; or it may in like manner be fitted into the mouth of a demijohn or jar. The 30 nozzle or tube has air holes or passages *a a* in its lower end, and fitted into its upper and lower ends and extending through it is a section of pipe, C, upon the lower end of which is detachably affixed another section of pipe, C', reaching near the bottom of the vessel, while to the outer end of its curved portion is similarly connected a flexible pipe, D, which leads to and feeds or discharges the liquid of the vessel into the lamp or other vessel to be 40 filled or supplied.

45 E is also a curved section of pipe, the lower end of which is fitted into the upper end of the nozzle A, both which and its fellow, curved pipe C, are provided with valves *b*, fixed to a common stem, having a thumb-piece, *b'*, the valves being employed as auxiliary valves to close the pipes against possible leakage or ingress of air after it has been abstracted from the cask.

To the pipe E is fitted a section of flexible pipe, F, having a mouth-piece, *f*, as shown in Fig. 1, or an air-supplying bulb, *f'*, as seen in the other figures; or, in lieu of either of these, may be substituted an air-pump.

Within the pipe F are arranged valves *g g*, one being disposed on each side of the air-inlet, as shown in Fig. 3.

By forcing air into the liquid-containing vessel by the mouth applied to the mouth-piece, or repeatedly compressing and relaxing the bulb, the liquid thus subjected to pressure will be caused to ascend the pipes C' and C and be discharged or fed through the pipe D into the lamp or other vessel it is desired to fill. By producing a vacuum in the pipe D the reverse of the foregoing can be effected, causing the withdrawal of the liquid from the supplied vessel—or, in other words, its return to the containing-vessel. The end of pipe D is provided with a rubber nipple, *d*, in order to form an air-tight connection with the demijohn, as shown.

The desiderata resulting from my apparatus are that no bungs or corks have to be removed and replaced, and the containing-vessel is adapted to be kept always air-tight.

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

1. In apparatus for discharging containing-vessels of their contents or liquids, the combination, with the nozzle having air-apertures in one end, of the air and liquid pipes, substantially as and for the purpose set forth.

2. The combination, with the screw-threaded nozzle having air-apertures through its lower end, of the pipe F, having valves *g*, and the pipes C E, having the valves *b*, arranged on a common stem, and the pipe D, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES C. REDMOND.

Witnesses:

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