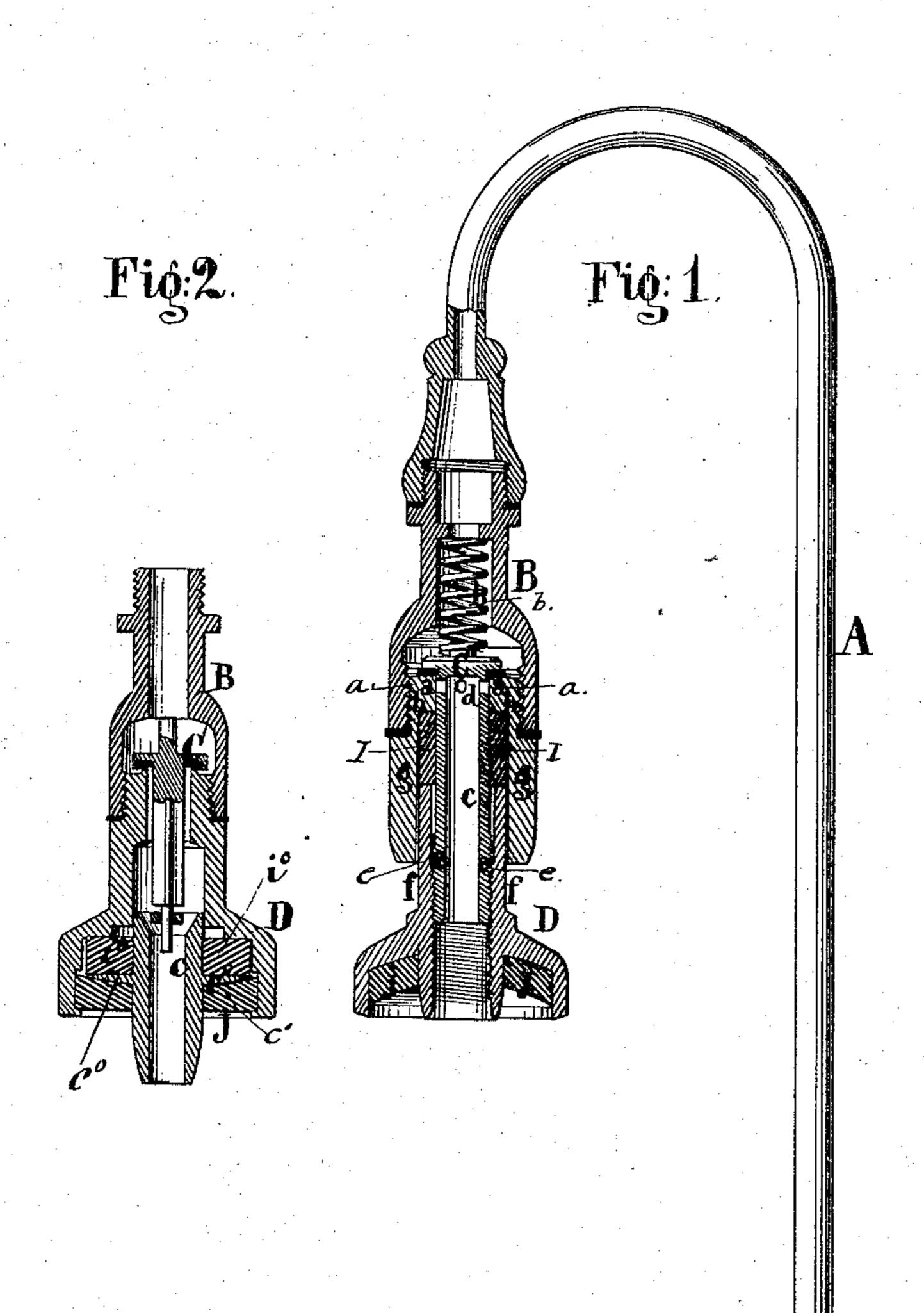
T. WARKER.

Apparatus for Drawing Effervescent Liquids.

No.157,433.

Patented Dec. 1, 1874.



Witnesses:

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UNITED STATES PATENT OFFICE.

THOMAS WARKER, OF NEW YORK, N. Y.

IMPROVEMENT IN APPARATUS FOR DRAWING EFFERVESCENT LIQUIDS.

Specification forming part of Letters Patent No. 157,433, dated December 1, 1874; application filed May 27, 1874.

To all whom it may concern:

Be it known that I, Thomas Warker, of the city, county, and State of New York, have invented certain new and Improved Apparatus for Drawing Effervescent Liquids, of which the following is a specification:

This invention is illustrated in the accompanying drawing, which represents a longi-

tudinal central section thereof.

This invention consists in the combination of a cap with a stop-valve, and with a pipe leading to the fountain or vessel from which the liquid is to be drawn, the tubular shank of said cap being made to fit in a socket containing an elastic packing-ring in such a manner that, when the vessel which is to be filled is pressed against the cap, the elastic packing-ring is firmly compressed and the stop-valve is raised from its seat, thus allowing the liquid from the fountain to pass into the receiving-vessel without waste or leakage.

In the drawing, the letter A designates a pipe, which extends from a vessel or fountain containing an effervescent liquid, such as champagne or carbonic acid, water, or any other liquid of a similar nature. To the discharging end of this pipe is secured a valvechamber, B, in which is formed a seat, a, for the valve C, and a spring, b, serves to hold this valve down on its seat. Said valve is provided with a tubular stem, c, which is provided with holes d, through which the liquid escapes when the valve is raised from its seat. On the lower end of this tubular valve-stem is a screw-thread, e, which fits a screw-thread in the interior of a tube, f, which rises from the cap D and extends into a socket, g, made in the casting, the upper surface of which forms the valve-seat. This socket is provided with a shoulder, h, against which is placed a packing ring, i; and the tubular extension fof the cap D bears against this packing-ring, which is made of india-rubber or other elastic | material, so that, when the cap is pressed upward, said packing-ring will be compressed sufficiently to allow the valve to rise from its seat. The cap D is lined with a packing-ring, j, of thick india-rubber, so that, when a bottle is pressed up against said cap, a tight joint |

will be produced between the mouth of the bottle and the cap.

In order to draw liquid from the fountain the mouth of the bottle or receiving-vessel is placed into the cap D, and, by pressing up against said bottle, the tubular extension of the cap is forced up against the packing-ring i, and, as this packing-ring is compressed, the joint between the tubular extension of the cap and the packing-ring is rendered perfectly tight, and thus preventing the passage of liquid down between the shank of the valve and the packing, and its entrance into and through the screw-thread of the cap and the valveshank. At the same time the valve is raised from its seat, and the liquid from the fountain passes into the receiving-vessel. When the receiving-vessel has been filled to the desired point the pressure against it is gradually reduced, so that the stop-valve will close before the joint between the cap and the mouth of the receiving-vessel is broken, and thereby all waste or spilling of liquid is avoided.

In Fig. 2, I have shown a modification of my invention. In this case the cap D is firmly connected to the valve-chamber B, and the tubular valve-stem c is provided with a flange, c°, which bears against the packing-ring i°. In front of this flange is placed the packing-disk j. The tubular stem c may be firmly connected to the valve, or it may be provided with a bridge to receive a pin projecting from

When the receiving-vessel is pressed against its seat the disk j is first compressed, so as to close the mouth of said receiving-vessel; then the ring io is compressed and the valve is raised from its seat. The liquid, on discharging into the receiving-vessel, is kept under the same pressure which exists in the fountain, and when the receiving-vessel is removed from the cap D the free gas escapes, and the liquid in the receiving-vessel can be poured into a tumbler without destroying its life.

If an effervescent liquid, such as champagne or effervescent lemonade, is drawn directly into a tumbler from a fountain or vessel under pressure, most, if not all, the gas contained in said liquid escapes with the foam, and the remaining liquid in the tumbler has lost all its life. By my apparatus champagne or other liquid of a similar nature can be dispensed directly from a cask or fountain in any desirable quantity.

What I claim as new, and desire to secure

by Letters Patent, is—

The combination of the cap D, a stop-valve having a shank connected with the sliding cap,

and a pipe leading to the vessel containing the effervescent liquid, with an elastic packing arranged between the sliding cap and the seat of the stop-valve, substantially as and for the purpose described.

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Witnesses:

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