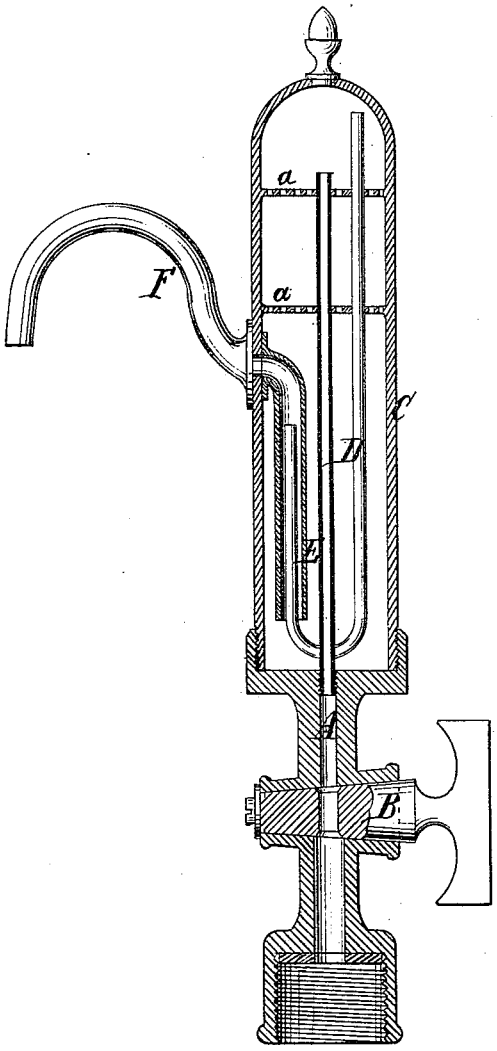
C. GREINER.

Apparatus for Drawing Effervescent Liquids.

No. 165,565. Patented July 13, 1875.



Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES GREINER, OF NEW YORK, N. Y.

IMPROVEMENT IN APPARATUS FOR DRAWING EFFERVESCENT LIQUIDS.

Specification forming part of Letters Patent No. **165,565**, dated July 13, 1875; application filed December 17, 1874.

To all whom it may concern:

Be it known that I, CHARLES GREINER, of the city, county, and State of New York, have invented a 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 vertical central section.

This invention consists in combining, with the discharge-pipe of a fountain or vessel containing an effervescent liquid under pressure, a stop-cock, one or more sieves, an expansion-chamber, a siphon-shaped escape-pipe for the surplus gas, and a spout which connects with a pipe extending down near to the bottom of the expansion-chamber, and which embraces the discharge-shank of the gas-escape pipe, in such a manner that when the stop-cock is opened the liquid from the fountain ascends nearly to the top of the expansion-chamber, whence it trickles down through the sieve or sieves, while the gas which disengages from the liquid escapes through the pipe provided for that purpose, and, after the expansion-chamber has been filled up to a certain level, the liquid discharges through the spout, and thereby the operation of drawing an effervescent liquid from a fountain in a bottle or in a tumbler is materially facilitated.

In the drawing, the letter A designates the discharge-pipe of a fountain containing an effervescent liquid under pressure. This discharge-pipe may be connected to the fountain by any suitable means, and it is provided with a stop cock, B, which serves to open or close the same. Said discharge-pipe extends up into an expansion-chamber, C, and in the upper part of this chamber are one or more perforated partitions or sieves, *a*, so that the liquid which escapes from the discharge-pipe will trickle down slowly to the lower portion of the expansion chamber. In this expansion-chamber is situated a siphon-shaped pipe, D, the long shank of which extends up near to the top of said chamber, while its short shank passes up into a pipe, E, which communicates with the spout F. The pipe E extends down near to the bottom of the expansion-chamber. When the stop-cock B is opened, the liquid from the fountain rushes up through the discharge-pipe A with considerable force, and a quantity of gas is liberated, which escapes freely through the pipe D, while the solid liquid trickles down through the sieve or sieves *a*. By the current of gas rushing out through the pipe D and spout F, a suction is created in the pipe E, and as soon as the liquid in the expansion-chamber rises to a certain level, such liquid begins to flow out through the spout F. By these means all foaming of the liquid is avoided, and the operation of drawing an effervescent liquid from a fountain into bottles or in a tumbler is materially facilitated.

It is obvious that, instead of the pipes D and E, channels might be used, cast or formed in the walls of the expansion-chamber.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with the discharge-pipe of a fountain containing liquid under pressure, of a stop-cock, B, a siphon-shaped gas-escape pipe, D, one or more sieves, *a*, a liquid-escape pipe, E, and spout F, all constructed and operating substantially in the manner shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 11th day of December, 1874.

CHARLES GREINER.

Witnesses:
W. HAUFF,
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