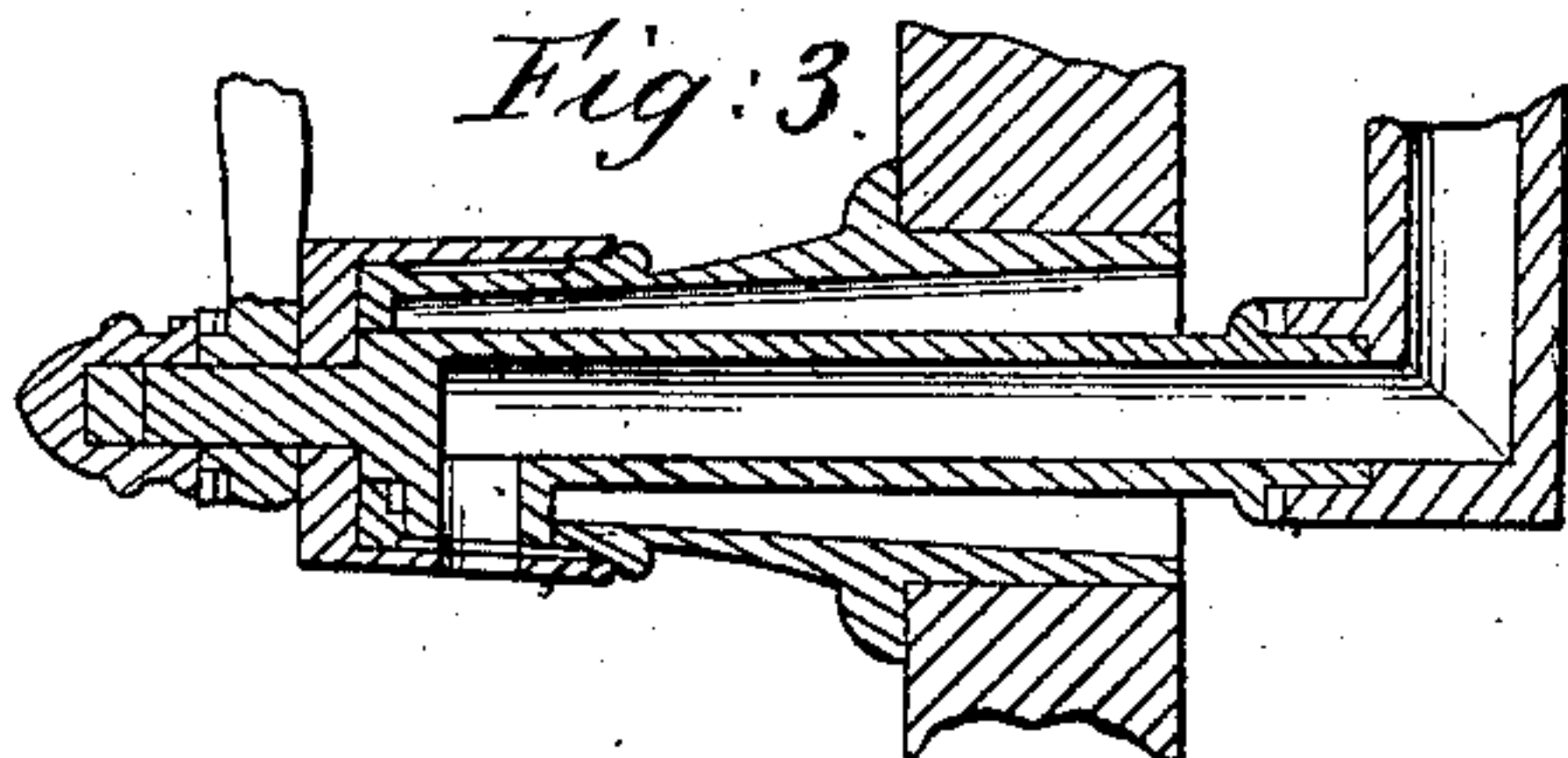
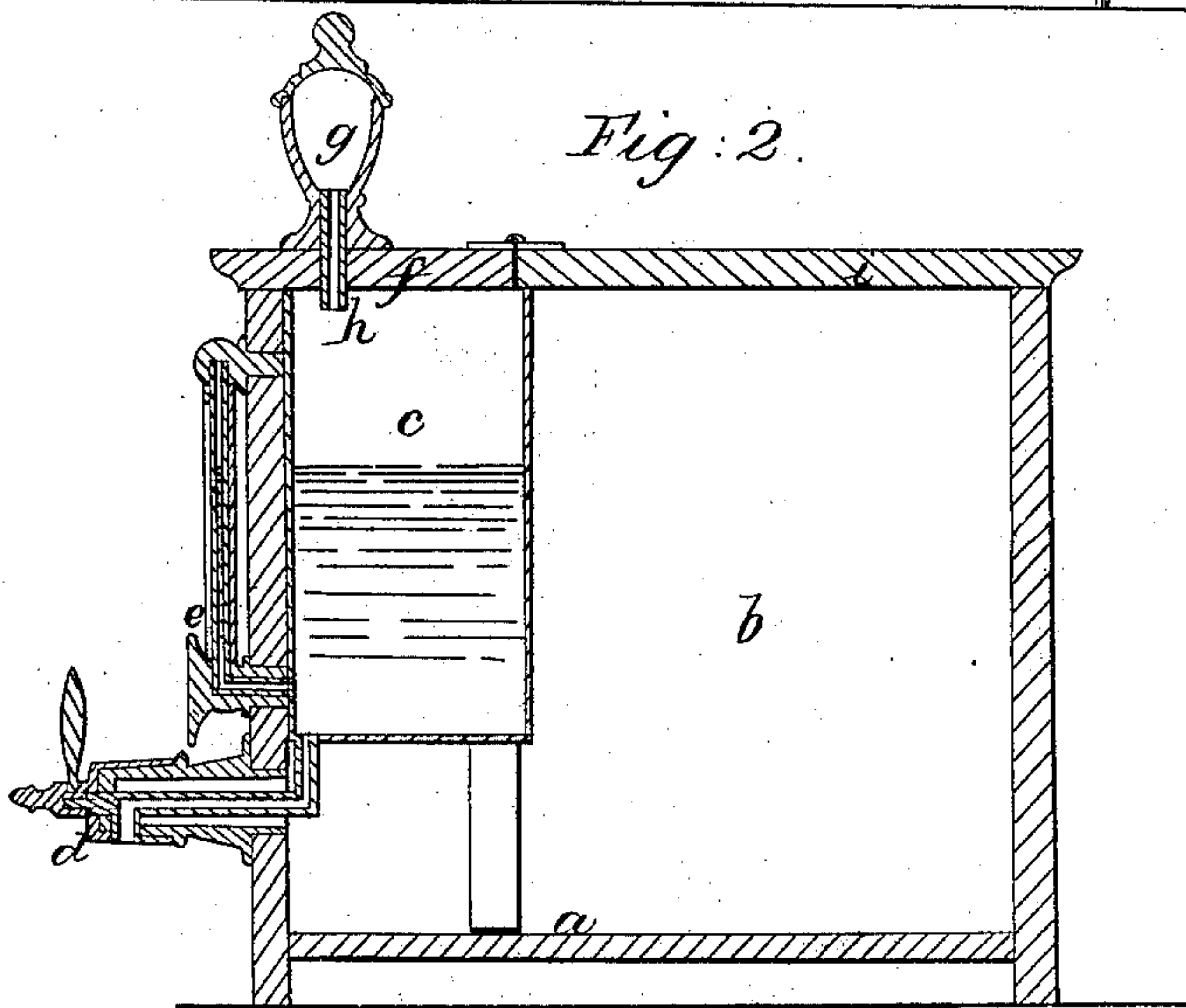
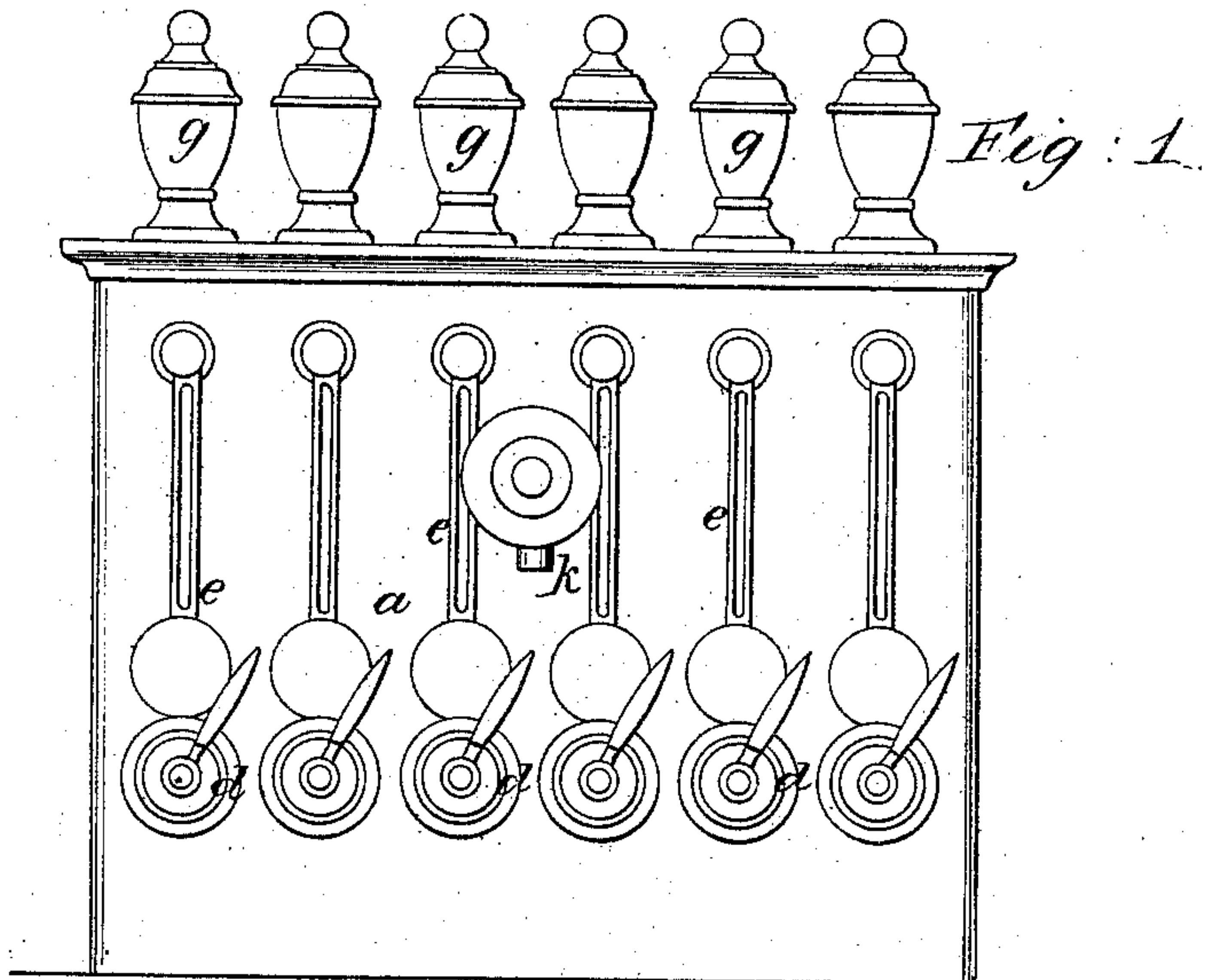


*A. J. Morse,*

*Syrup Fountain.*

*N<sup>o</sup> 44,645.*

*Patented Oct. 11, 1864.*



*Witnesses;*  
*P. Gould*  
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# UNITED STATES PATENT OFFICE.

ANDREW J. MORSE, OF MELROSE, MASSACHUSETTS.

## IMPROVED SODA-WATER APPARATUS.

Specification forming part of Letters Patent No. 44,645, dated October 11, 1864.

*To all whom it may concern:*

Be it known that I, ANDREW J. MORSE, of Melrose, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Soda-Water Apparatus; and I do hereby declare that the following, taken in connection with the drawings which accompany and form part of this specification, is a description of my invention sufficient to enable those skilled in the art to practice it.

My improvement relates to the construction and disposition of parts in the sirup-containing box or reservoir, now used to a great extent in connection with the common soda-fountain, for the preparation of soda beverages.

The invention consists in the employment of fluid or surface indicators upon the outside of the box, in connection with the sirup-vessels placed within the box, for the purpose of showing the condition or quantity of the sirup in each sirup-vessel; and the invention further consists in the employment, in connection with the sirup vessels and indicators, of a series of charging cups or tubes, and also in the construction of the top of the box with reference to the sirup-vessels and charging-tubes.

Figure 1 of the drawings denotes a front elevation of my apparatus, and Fig. 2 a cross-section taken through one of the indicators.

*a* denotes a box or reservoir, the rear part, *b*, of which is to contain the ice to cool the sirups, while the front part contains a series of sirup-vessels, placed adjacent to the front wall of the box *a*, one of said vessels being seen at *c* in Fig. 2, and there being a similar vessel to each delivery cock *d* seen in Fig. 1. Each of these cocks leads from the bottom of its sirup-vessel, and just above the outlet of each vessel there is placed a pipe, *e*, which extends through the box and up vertically in front of the same and in line with the cock beneath, as seen in Fig. 1, the part of the pipe in front of the box being made or mostly made of glass. The vessels *c* are closed at top by the part *f* of the box directly over them, such part being permanently secured to the box. On this top piece a series of cups, *g*, is placed, each cup having a tube, *h*, leading from its bottom through the cover *f* into the sirup-vessel beneath. The vessels are charged through these cups, as will be readily under-

stood, and the indicators in front of the box show respectively the height or amount of sirup in each vessel. Just in rear of the part *f* of the top of the box a cover, *i*, is hinged, said cover opening into the ice-reservoir *b*. The soda-fountain tube is seen at *k*.

In the common construction of a sirup containing and delivering apparatus, as used in connection with a soda-fountain and refrigerating-box, it is customary to place a series of sirup-jars in the front part of the box, with education-pipes leading from the same, such jars being left open at top, and the whole box being surmounted by a heavy cover, the box being generally constructed of marble. In order to fill or replenish the jars it is necessary in such an arrangement to remove the whole top, although there may be but one jar to be filled. Besides the trouble and inconvenience arising from such construction, there is a greater difficulty, arising from the impossibility of knowing the amount of sirup contained in any one or more of the jars, it being necessary to remove the top to ascertain this. Thus it often happens that a particular sirup gives out when there is no time or opportunity to remove the top and it has been my object, in constructing my apparatus to overcome these defects, which I do in the first place by arranging in front of the box the series of indicators, which show at all times the condition of the sirup in the jars or vessels, and in the next place by placing on the top of the box and over each sirup-vessel a charging-cup, through which the vessel may be filled without disturbance of the top; and by this arrangement I am enabled to construct the front of the box with a permanent fixed-cover, while the ice-chamber *b* is surmounted by the hinged cover *i*, thus permitting the ice-chamber to be charged with ice without uncovering the sirup-vessels. The whole arrangement produces a neat and ornamental effect, and saves a great amount of time and labor.

Each sirup-cock in this apparatus is to be so constructed and arranged as to have a chamber or space between the sirup-conduit and the outer casing of the cock, this chamber opening into or communicating freely with the ice-chamber *b*, so that the entire length of the sirup-conduit projecting from the apparatus shall be refrigerated by the ice in said chamber *b*. The construction of such cock is

shown in section in Fig. 3. As, however, such construction is made the subject of another application for a patent of even date herewith, it need not be more particularly described herein.

I claim—

1. In connection with one or more sirup vessels or jars, the indicating-tubes arranged and operating substantially as described.

2. In combination with the sirup vessels and indicators, the charging-cups *g*, arranged upon

the top of the box and leading into the sirup-vessels, as and for the purpose set forth.

3. With an apparatus constructed with the charging cups and indicators, the construction of the top of the box with the fixed part *f* and hinged cover *i*.

ANDREW J. MORSE.

Witnesses:

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F. GOULD.