

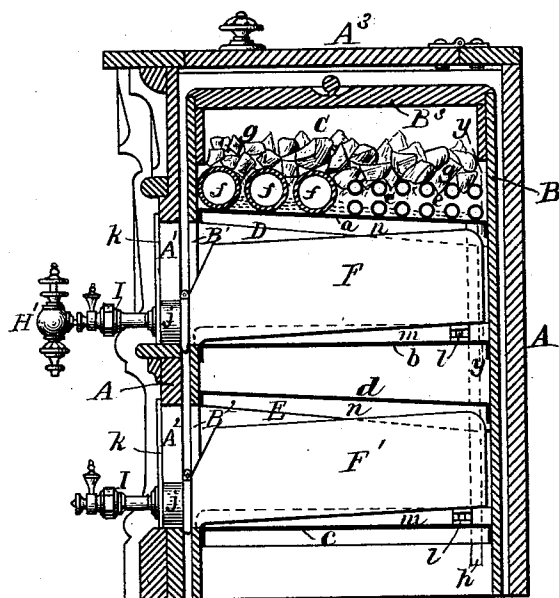
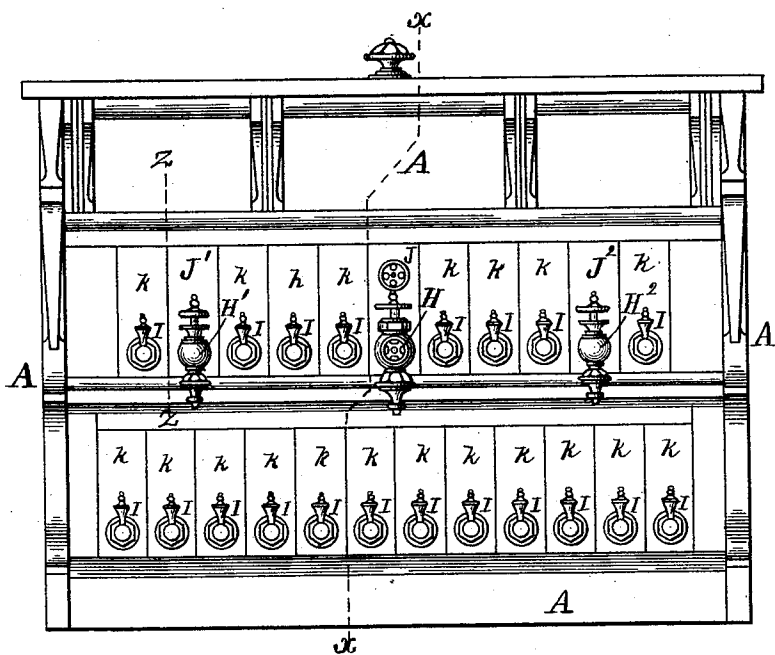
(No Model.)

2 Sheets—Sheet 1.

W. H. COLLINS.
SODA WATER APPARATUS.

No. 484,889.

Patented Oct. 25, 1892.



Witnesses.

Geo A Sewall
A. L. Simpson

Inventor.

William H. Collins
by N. G. Lombard
Attorney.

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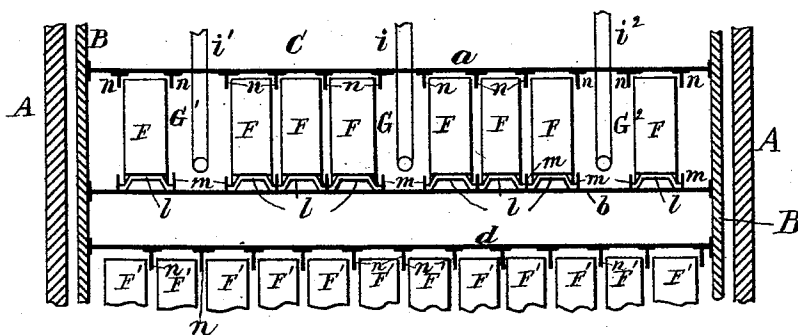


Fig. 3.

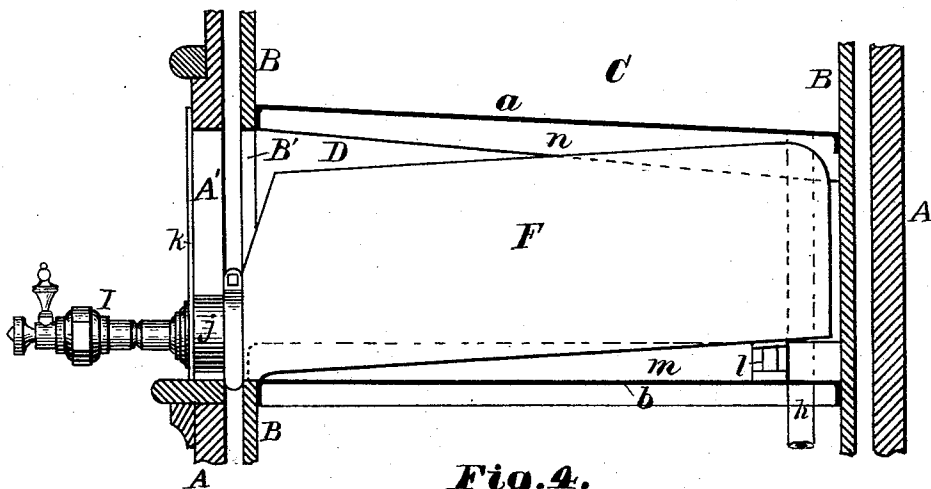


Fig. 4.

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UNITED STATES PATENT OFFICE.

WILLIAM H. COLLINS, OF MALDEN, MASSACHUSETTS.

SODA-WATER APPARATUS.

SPECIFICATION forming part of Letters Patent No. 484,889, dated October 25, 1892.

Application filed June 13, 1892. Serial No. 436,528. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. COLLINS, of Malden, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Soda-Water Apparatus, of which the following, taken in connection with the accompanying drawings, is a specification.

My invention relates to apparatus for dispensing soda-water; and it consists in certain novel features of construction, arrangement, and combination of parts, which will be readily understood by reference to the description of the accompanying drawings, and to the claims at the end of this specification, in which my invention is clearly pointed out.

Figure 1 of the accompanying drawings is a front elevation of a soda-water apparatus embodying my invention. Fig. 2 is a vertical section on line *x x* on Fig. 1. Fig. 3 is a partial vertical section on line *y y* on Fig. 2, and Fig. 4 is a partial vertical section on line *z z* on Fig. 1.

In soda-water apparatus as heretofore constructed when a large number of different sirups were required to be used it was necessary to make the casing in which the apparatus was inclosed of such great length that it was often impossible or at least very inconvenient to spare the amount of space required for placing the apparatus, and as it is now very common to use fifteen or twenty different sirups it becomes very desirable, and is the object of my invention, to so arrange the soda apparatus that a greater number of sirup cans or tanks may be employed without increasing the length or depth of the inclosing casing. To this end I construct my soda-water apparatus as shown in the accompanying drawings, in which—

A is the main body of the outer casing, provided with the rectangular openings A^1 and A^2 in its front and having the hinged lid A^3 in its top, said casing being preferably made of marble.

B is an inner casing, also provided with two rectangular openings B^1 and B^2 in its front wall and having the removable cover or lid B^3 , as shown in Fig. 2.

The casing B is made of such a size relative to the casing A that when the two are

placed in position, one within the other, there shall be an air-space all around the inner casing and between it and the outer casing, as shown in Figs. 2, 3, and 4.

The inner casing B is divided into a series of compartments C, D, and E by the plates *a*, *b*, *c*, and *d*, the upper compartment C containing the cooling-pipes *e* and *f* and the ice *g*, the plate *a*, which forms the bottom of said compartment, being inclined toward the rear, as shown, and said compartment is provided with the drain-pipe *h* to convey away the water produced from the melting of the ice. Upon each of the plates *b* and *c*, forming the floors of the compartments D and E, respectively, are mounted in inclined positions a series of rectangular sirup cans or tanks F and F' , respectively, the lower series F' occupying the whole length of the chamber E, as shown in Figs. 1 and 3. A smaller number of sirup-tanks F are placed in the chamber D in order to provide spaces at G , G' , and G^2 for the draft-cocks H , H' , and H^2 and the pipes *i*, *i'*, and *i^2*, leading therefrom to the coolers *e* and *f*, and through which soda-water or mineral water may be drawn. Each of the sirup-tanks has formed on its front end a suitable neck *j*, in which is screwed the cock *I*, between a collar on which and said neck is clamped a rectangular plate *k*, which serves to close a section of the opening A' or A^2 , as shown in Figs. 1, 2, and 4. The rear ends of the sirup-tanks are raised above the floor-plates *b* and *c* to facilitate the proper drainage of said tanks by means of chocks or saddles *l*, and said tanks are prevented from coming in contact with each other by the division-ribs *m* and *n*, secured, respectively, to the floor-plates *b* and *c* and the plates *a* and *d*, as shown in Figs. 2, 3, and 4. By this arrangement of the ice-chamber in the top of the casing and providing it with a supplementary cover B^3 the ice may be made to last much longer than heretofore, and by means of the drain-pipe *h* said chamber is perfectly drained without in the least fouling the chambers containing the sirup-tanks, and by the arrangement of the sirup-tanks in two banks or series, one above the other, I am able to employ twenty sirup-tanks in a casing only three and one-half feet in length instead of six feet in length, as would

be required if the same number of tanks were arranged in a single bank or series, as heretofore practiced.

The plates *k k*, secured to the necks of the sirup-tanks, are made of such dimensions that when all the sirup-tanks are in position said plates entirely close the opening A^2 and all of the opening A' except the three spaces G , G' , and G^2 , which are closed by corresponding plates J , J' , and J^2 , to which are secured the draft-cocks H , H' , and H^2 , respectively, and either of the sirup-cans can be readily withdrawn by slightly lifting its front end and then drawing it forward, using its cock I as a handle.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a soda-water apparatus, the combination of an outer casing having a door in its top and two rectangular openings in its front, an inner casing divided horizontally into three compartments, the upper compartment having a removable cover and an inclined floor and each of the other compartments having a rectangular opening in its front, cooling-pipes arranged in said upper chamber, a draft cock or cocks for drawing liquid from said cooler-pipes, arranged below the level thereof, a series of sirup-tanks arranged in each of the chambers D and E and adapted to be each

withdrawn through openings in the front of the outer and inner casings, separating-ribs attached to the floors of the compartments D and E , and two series of cocks for drawing sirups from said tanks, the upper series being on the same level as the soda-draft cock or cocks.

2. In a soda-water apparatus, the combination of the casings A and B , provided with the front openings A' and A^2 and B' and B^2 , respectively, the casing B being divided horizontally into three compartments or chambers C , D , and E , the cooler-pipes $e f$ in the chamber C , the soda-draft cocks arranged below the bottom of said chamber C , the ribs m and n in the chambers D and E , the two series of sirup-tanks F and F' , arranged in the chambers D and E , respectively, and adapted to be withdrawn through the openings $A'B'$ and $A^2 B^2$ and each provided with the neck j , the cock I , and the plate k , secured to the neck of each tank, substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 9th day of June, A. D. 1892.

WILLIAM H. COLLINS.

Witnesses:

N. C. LOMBARD,
A. D. SIMPSON.