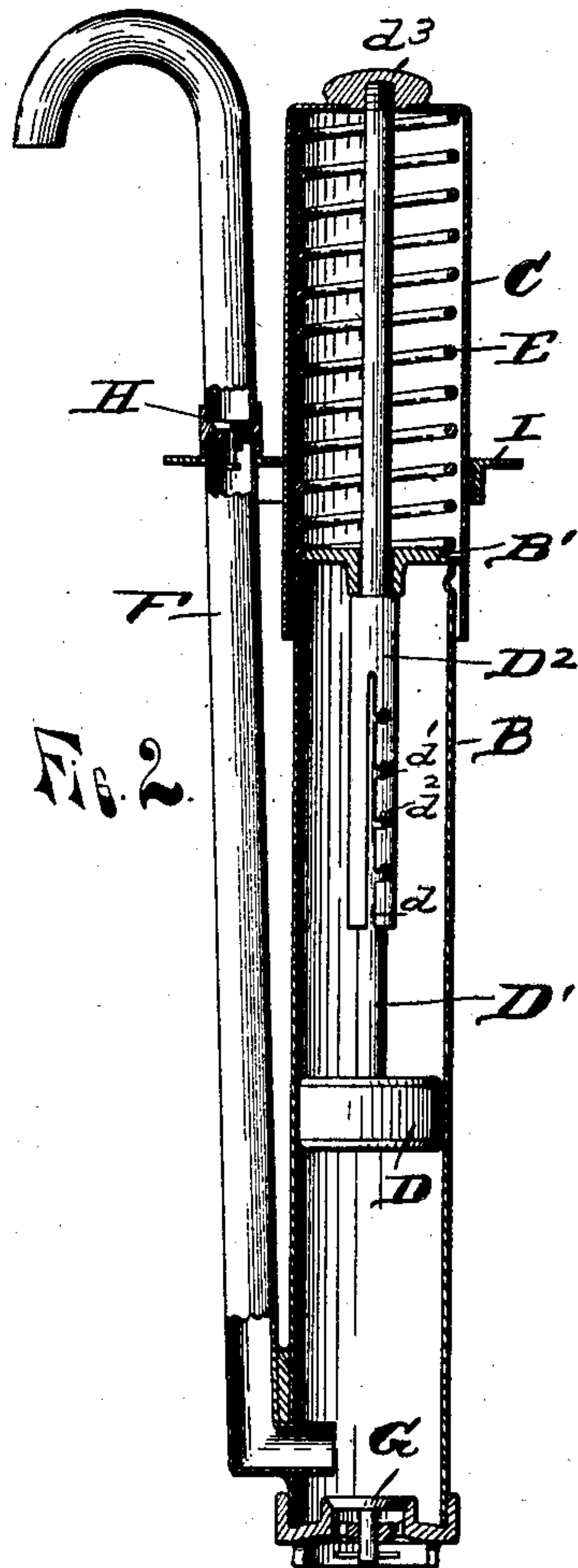
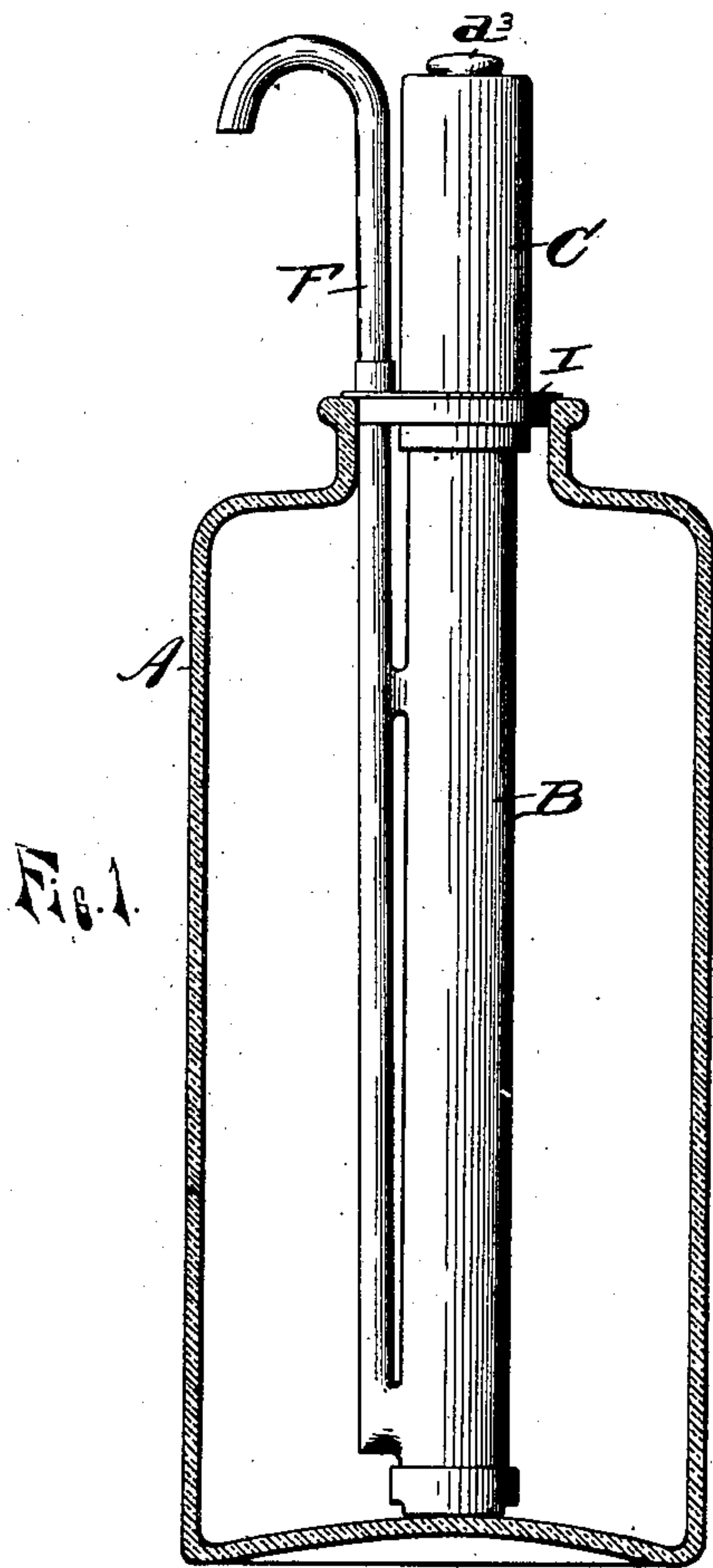


No. 880,370.

PATENTED FEB. 25, 1908.

J. H. EARL.
AUTOMATIC GINGER ALE DISPENSER.
APPLICATION FILED AUG. 22, 1906.



WITNESSES:

Chas H. Fisk
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INVENTOR:

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UNITED STATES PATENT OFFICE

JOHN H. EARL, OF DETROIT, MICHIGAN.

AUTOMATIC GINGER-ALE DISPENSER.

No. 880,370.

Specification of Letters Patent.

Patented Feb. 25, 1908.

Application filed August 22, 1906. Serial No. 331,574.

To all whom it may concern:

Be it known that I, JOHN H. EARL, citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have
5 invented a certain new and useful Improvement in Automatic Ginger-Ale Dispensers, and declare the following to be a full, clear, and exact description of the same, such as
10 it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in appliances for dispensing ginger ale and
15 like beverages, shown in the accompanying drawings and more particularly set forth in the following specification and claims.

In the drawings: Figure 1 is a side elevation of my invention, showing it in position
20 in a bottle. Fig. 2 is a central vertical section through the appliance, showing parts in elevation.

It is a well known fact that in dispensing ginger ale and similar beverages considerable time is wasted for the "foam" to disappear, in order to fill the glass with a
25 "solid" drink;—thus, one of the objects of my invention is to place upon the market an appliance capable of filling a glass by one
30 operation, the construction being such that it may be readily adjusted to discharge a large or small quantity, as required. Other advantages will hereafter appear.

Referring to the letters of reference shown
35 in the drawings, A represents a bottle or other container for ginger ale.

B is a cylinder preferably of a length equal to the height of the bottle.

C is a telescopic sleeve inclosed at the top,
40 into which the upper end of the cylinder B projects.

D is a piston traveling in the cylinder B, its piston-rod D' projecting up through the end of the sleeve C, when it is secured by the
45 nut d³.

E is a spring housed within the sleeve C, one end of which bears against the top of the sleeve, while the other rests upon a plate B' mounted on top of the cylinder B.

50 D² is a relatively short tube sleeved on the

piston-rod D', in which is cut an elongated slot d with notched recesses d' opening into the same.

d² is a pin secured in the piston-rod D', adapted to travel the length of the slot d and
55 to enter the notches d'; the object being to adjust the throw or travel of the piston, as will be hereafter explained.

F is a discharge pipe entering the cylinder B near the bottom of the bottle and terminating at the top in a downwardly projecting
60 neck or discharge orifice.

G is a check valve located in the bottom of the cylinder B, and H is a check valve in the
65 discharge pipe F.

I is a plate designed to rest on the neck of the bottle to seal the opening, through which the cylinder B and the discharge pipe F project.

Having indicated the several parts, the
70 operation of the appliance will be readily understood. The device being in position in a bottle filled with ginger ale, or other beverage, the sleeve C is forced down, carrying the
75 piston with it. On being released the spring forces the piston back to its initial position, as shown in the drawings, the suction lifting the valve G and drawing up into the tube the
80 beverage. Therefore, so long as the bottle contains a fluid, whenever the sleeve is forced down a given quantity of the beverage will be forced out of the discharge pipe F, the check valve H closing against the entry of air as the piston returns to its initial
85 position.

In order that a predetermined amount may be discharged at each operation, the sleeve D² is adjusted along the piston rod and locked by means of the pin d². It will
90 be thus seen that the travel of the piston is limited by the end of the sleeve D² contacting with the plate B', the spring E being thus adjusted so that it may be compressed to a greater or less extent as required.

Having thus described my invention, what
95 I claim is:—

In an appliance for dispensing liquids, a valved cylinder, a sleeve embracing the cylinder and slidable thereon, a spring actuated piston disposed within the cylinder with its
100

stem projecting through the sleeve, the piston carrying a projection upon its stem, a valved discharge pipe communicating with the cylinder, and a second sleeve embracing
5 the stem of the piston and provided with a slot having communicating notches for interchangeable engagement with said projection to vary the stroke of the piston.

In testimony whereof, I sign this specification in the presence of two witnesses.

JOHN H. EARL.

Witnesses:

HENRY E. VILLEBOI,
CHAS. H. FISK.