

(No Model.)

A. K. FINLAY.

COOLER FOR SODA WATER APPARATUS, &c.

No. 383,518.

Patented May 29, 1888.

Fig. 1.

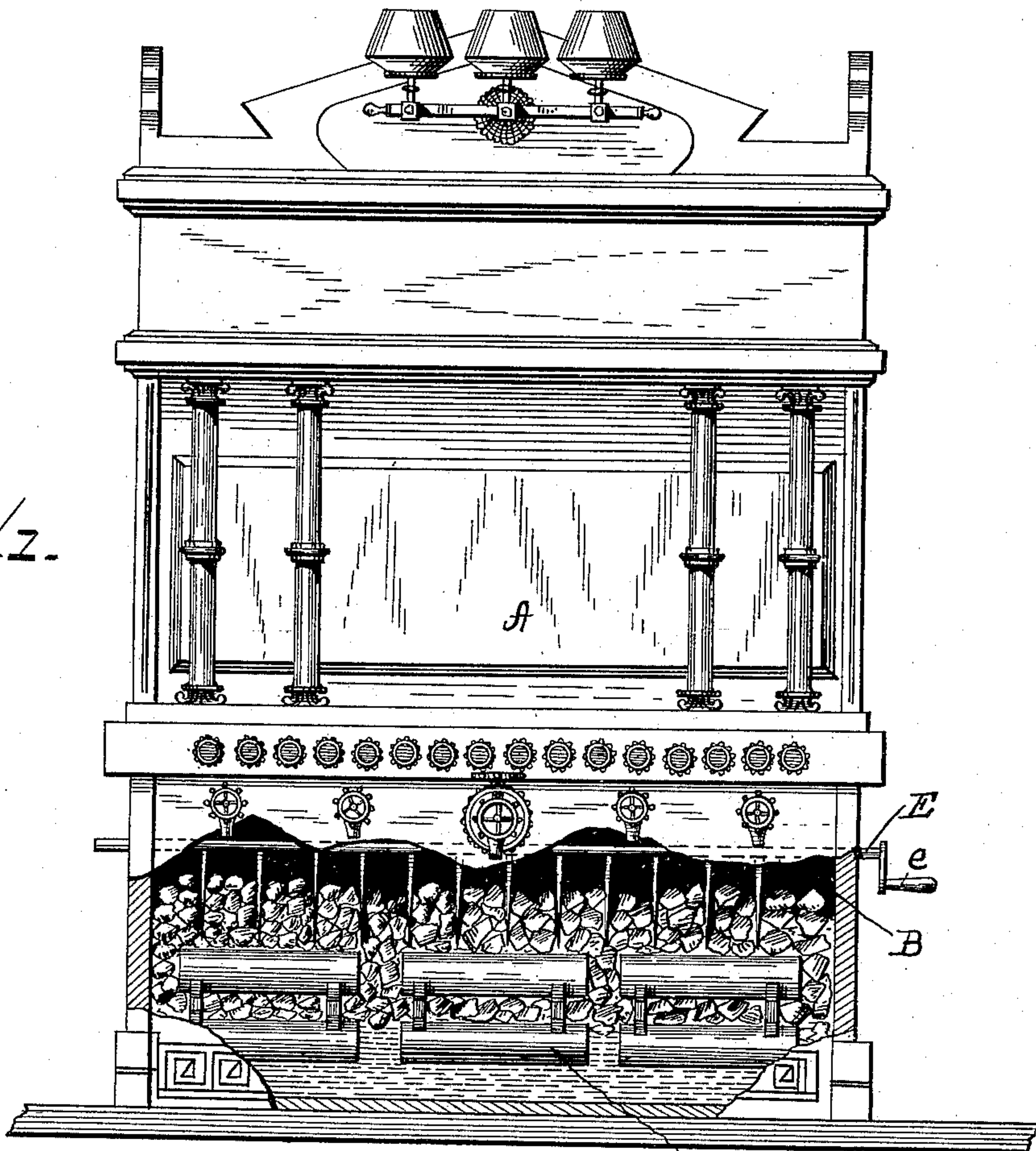
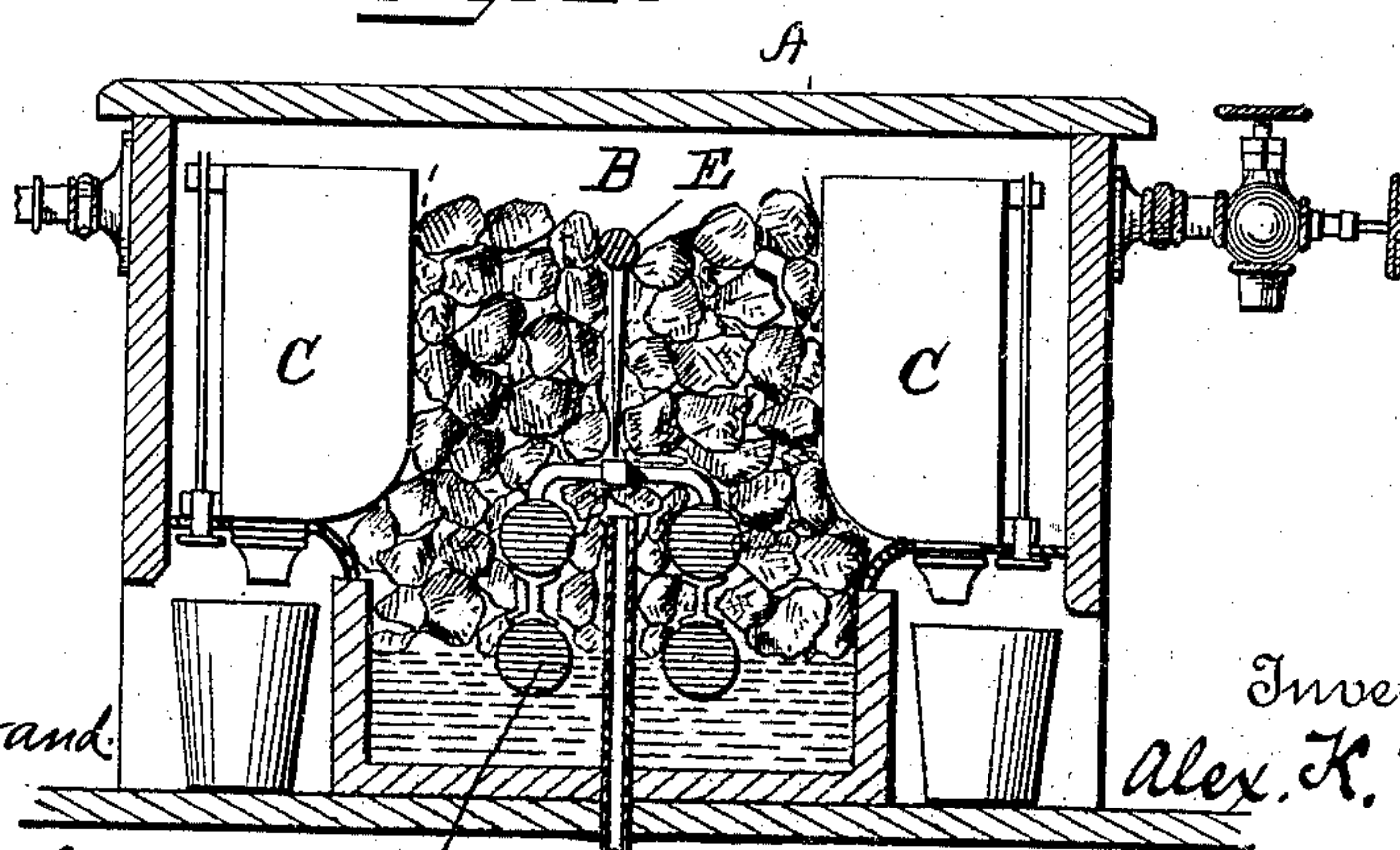


Fig. 2.



Witnesses,
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UNITED STATES PATENT OFFICE.

ALEXANDER KIRKWOOD FINLAY, OF NEW ORLEANS, LOUISIANA.

COOLER FOR SODA-WATER APPARATUS, &c.

SPECIFICATION forming part of Letters Patent No. 383,518, dated May 29, 1888.

Application filed July 12, 1887. Serial No. 244,105. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER KIRKWOOD FINLAY, a citizen of the United States, and a resident of New Orleans, parish of Orleans, State of Louisiana, have invented new and useful Improvements in Coolers for Soda-Water Apparatus, &c., of which the following is a full and exact description, reference being had to the accompanying drawings, making
10 part of this specification.

This invention relates to certain improvements in the coolers of soda-water fountains and other similar apparatus wherein broken ice is employed to effect the cooling; and it
15 has for its objects to provide for agitating the ice from time to time as required, so as to shake it down onto the coolers without opening the cooling-chamber, which is wasteful and inconvenient. By reason of the melting
20 of the ice in that part of the ice chamber which adjoins the cooling-chamber an air space is formed between the two, and the ice at the edge of this space freezes by regelation in an arch. It is necessary to get the full cooling
25 capacity of the ice to periodically rupture this arch, so as to bring the ice into close relation to the cooling-chamber. These objects I attain by the means illustrated in the accompanying drawings, in which—

30 Figure 1 represents a front elevation of a soda-fountain with a portion broken away so as to expose the interior of the ice-chamber, and Fig. 2 a transverse vertical section of said fountain.

35 The letter A indicates the fountain, which may be of any suitable design and constructed of any desired material.

The letter B indicates the cooling-chamber, which has the sirup-coolers C located in the
40 upper part at each side, and the soda-water coolers D located in the lower part and connected with the generator and draft mechanism, as usual.

45 The coolers may be of any desired construction, and may be arranged as may be most convenient.

The letter E indicates my improved agitating device, which consists of a rod passing horizontally and transversely through the upper
50 part of the cooling-chamber through suitably-packed apertures in the walls thereof. At proper intervals the said rod is provided with a series of fingers which extend down into the ice, as shown in the respective figures
55 of the drawings, the said fingers being screwed

in suitable screw-threaded sockets in the rod, or otherwise secured thereto. The rod at one or both ends is provided with a handle, *e*, by means of which it may be rotated, oscillated, or reciprocated to give an agitating or raking
60 movement to the ice, and thus loosen it and shake it down upon the coolers below.

As thus constructed, it will be apparent that the ice may be always kept in contact with the coolers without opening the cooling-chamber, resulting in a considerable saving of the
65 ice and greatly facilitating the manipulation of the fountain.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, 70 is—

1. In a cooling apparatus, the combination, with a chamber to receive the material to be cooled, of an ice-chamber adjacent thereto and extending above the same, and an agitator provided with suitable operative devices, said agitator being located in the ice-chamber in position to engage the ice-arch and rupture the same when it is operated. 75

2. The combination, with the cooling or
80 ice chamber of a soda or other like fountain, of an agitator capable of a reciprocating, oscillating, or rotary motion, whereby the ice may be loosened and shaken down upon the coolers, substantially as specified. 85

3. The combination, with the cooling chamber of a soda-water apparatus, of a horizontal rod extending through the same, and provided with fingers whereby the ice may be agitated, the said rod having a handle on the
90 outside whereby it may be rotated, oscillated, or reciprocated, substantially as specified.

4. In combination with a soda-water apparatus having a cooling-compartment provided at its bottom with soda-water coolers and
95 their ordinary supply and exhaust connections, a rod arranged to operate in apertures in the walls of the cooling-chamber, the said rod provided between the apertures with a series of projecting fingers, and at its ends
100 with handles whereby it is operated so that the fingers of the rod may rake across the upper surface of the soda-water coolers, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in
105 presence of two witnesses.

ALEXANDER KIRKWOOD FINLAY.

Witnesses:

ABRAHAM L. METZ,
E. J. MARVIN.