

A. WARTH.
TAP FOR LIQUID PACKAGES.

No. 102,188.

Patented Apr. 19, 1870.

Fig 1.

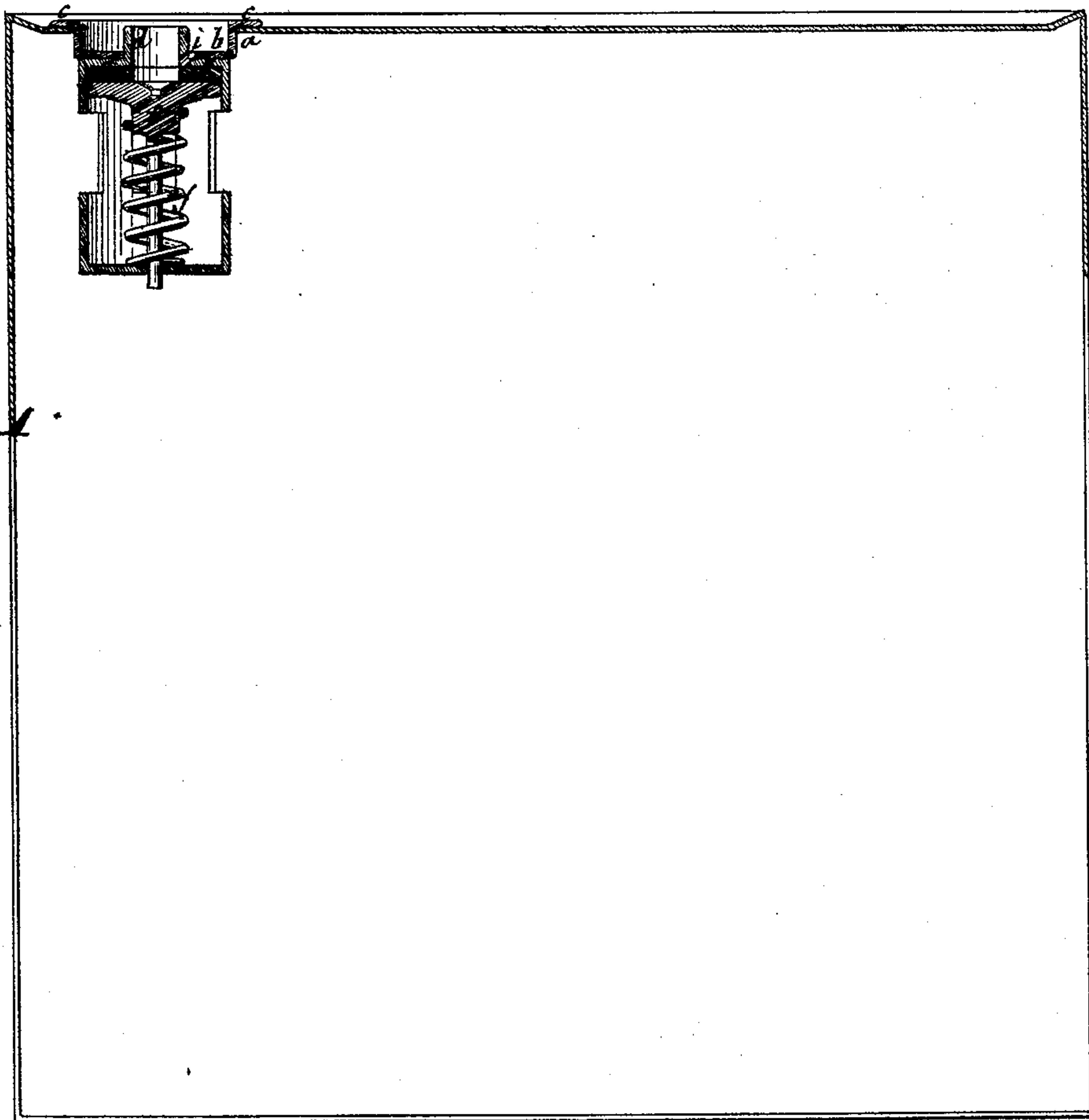
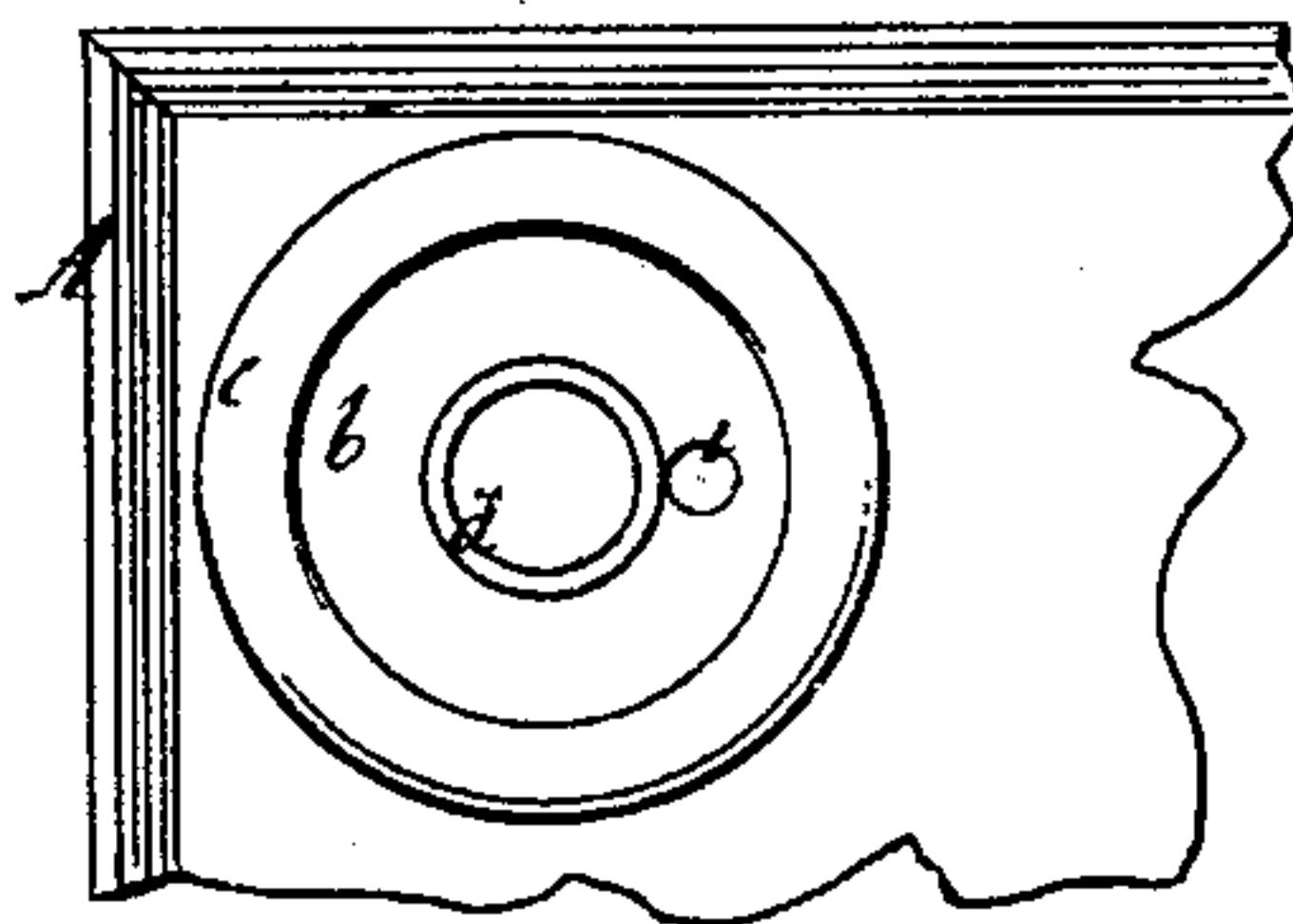


Fig 2.



Witnesses
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Letters Patent No. 102,188, dated April 19, 1870.

IMPROVEMENT IN TAPS FOR LIQUID PACKAGES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ALBIN WARTH, of the city, county, and State of New York, have invented a new and useful Improvement in Packages for Liquids; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a longitudinal section of this invention.

Figure 2 is a plan or top view of the same.

Similar letters indicate corresponding parts.

This invention consists in a package for liquids, which is provided with an aperture that is closed by a valve pressed up against it from the inside by means of a spring or screw, leaving the external surface of the package level, or nearly so, and allowing of drawing off at any time a portion or the whole of the contents of said package in such a manner that in transporting a number of my packages they can be packed close together, there being no portion thereof projecting materially beyond the surface of either package, and furthermore, if it is desired to take a sample from either of the packages, or to empty the same entirely, this object can be effected simply by pressing back or opening the valve, and after the sample has been drawn, the opening in the package is readily and rapidly closed by the valve, thereby avoiding the necessity of soldering or unsoldering any portion of the can.

In the drawing the letter A represents a package or can of that class generally used for the transportation of petroleum, or other liquids of a similar nature, said can being made by preference of tinned sheet iron.

This can is provided with an aperture, *a*, into which is fitted a cup-shaped disk, *b*, provided with a flange, *c*, that serves to secure the disk to the can by solder or other suitable means.

Said disk is perforated with a hole to receive a tube, *d*, the inner end of which is enlarged so as to form a chamber for the valve *e*, which is pressed up, by the action of a spring *f*, against the seat *g* formed by the shoulder of the tube *d*, as shown.

The valve-chamber is perforated in its sides so that

when the valve is pressed back, the liquid contained in the can has free access to the tube *d* through which it discharges.

In the side of the tube *d* may be made a vent-hole, *i*, to facilitate the discharge of the liquid from the can.

The outer end of the tube *d* projects beyond the depressed surface of the cup-shaped disk, so that the liquid, on flowing out, is not liable to run down over the side of the can, and the depression of the cup-shaped disk is of such a depth, that the tube *d* does not project beyond the plane of the rim or flange *c*.

If desired, however, the disk *b* might be made flat, with a simple opening without the depression, and without the tube *d* projecting beyond the surface thereof, but I prefer to arrange these parts as shown in the drawing, to facilitate the discharge of the liquid without soiling the sides of the can.

By this arrangement a can or package for liquids is obtained which is so constructed that it can be closely packed, there being no projecting part on the same, and from which a portion or the whole of its contents can be readily drawn at any time, the valve *e* being so arranged that it can be easily pressed in to allow the liquid to discharge, and that it closes or can be closed without difficulty whenever it is desired to stop the discharge of the liquid.

Such cans are of particular value for the transportation of petroleum, or other liquids of a similar nature, which have to be closely packed, and which, in order to be convenient, must be so constructed that samples of their contents can be drawn off at any moment for the purpose of judging the quality of the liquid.

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

A valve for opening and closing the aperture of a package for liquids, operated by a spring or screw arranged within a perforated valve-chamber which is provided with a tube or nipple, *d*, projecting beyond the depressed surface of the cup-shaped disk *b*, on a level with the external surface of a package, substantially as shown and described.

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Witnesses:

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