

J. M. HOPKINS.

DEVICE FOR FILLING AND DISCHARGING LIQUID PACKAGES.
No. 171,381.

Patented Dec. 21, 1875.

Fig. 1.

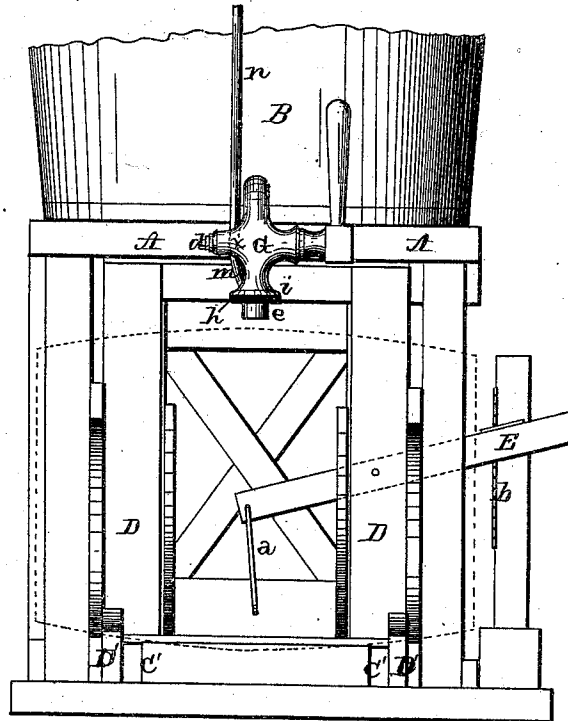
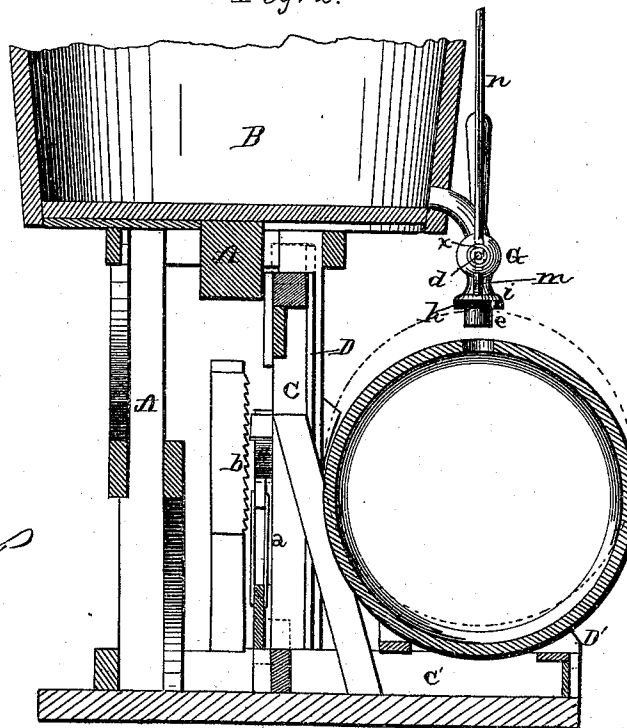


Fig. 2.



WITNESSES.

J. W. Barnes

Jno. Brown

INVENTOR

J. M. Hopkins

per

T. A. Lehmann

att'y

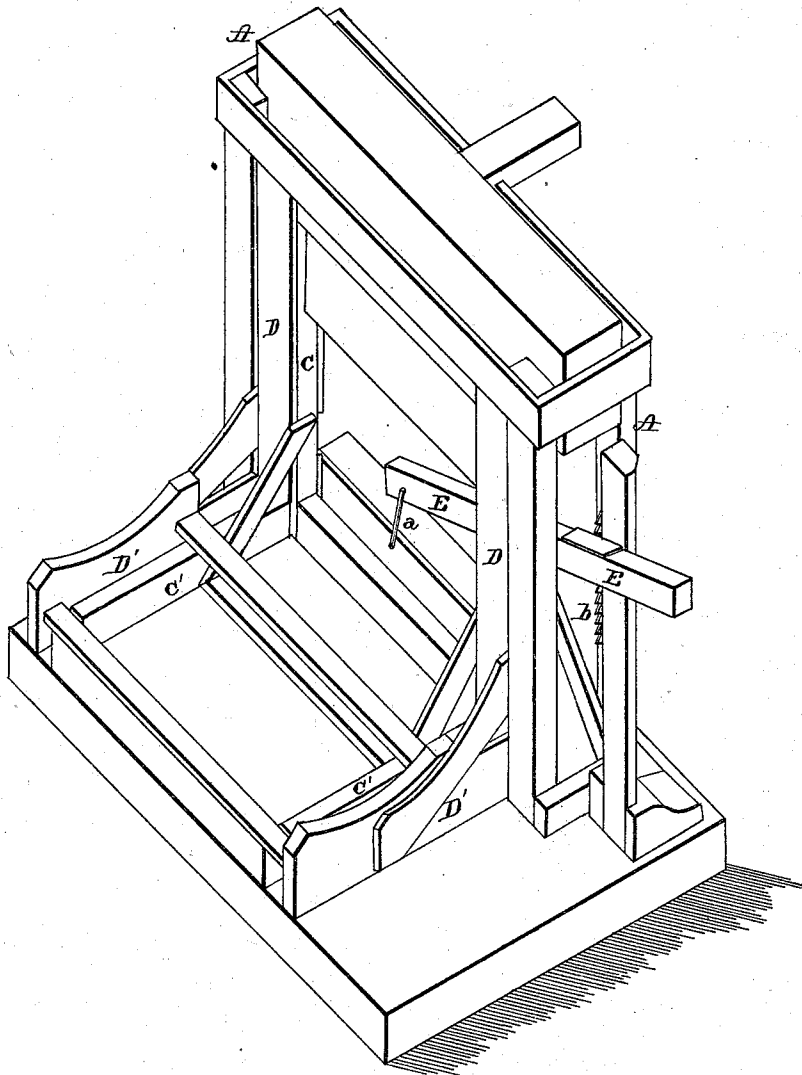
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Fig. 3.



WITNESSES.

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UNITED STATES PATENT OFFICE.

JAMES M. HOPKINS, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN DEVICES FOR FILLING AND DISCHARGING LIQUID-PACKAGES.

Specification forming part of Letters Patent No. **171,381**, dated December 21, 1875; application filed September 10, 1875.

To all whom it may concern:

Be it known that I, JAS. M. HOPKINS, of Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Device for Filling and Discharging Liquid-Packages; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a device for filling liquor-packages, as will be hereinafter more fully set forth.

The annexed drawing, to which reference is made, fully illustrates my invention.

A represents a suitable frame-work, upon which is supported the vat or other vessel, B, containing the liquor, and from which the barrels or other packages are to be filled. In the frame A are two upright guide-posts, C C, from the lower ends of which two horizontal beams, C' C', or sills project forward. The upright posts C C form guides for the up-and-down movement of an L-shaped frame, D D', the upright side bars D of which are grooved, or otherwise formed so as to fit around three sides of the guide-posts C C. The horizontal bars D' of the movable frame are on the outside of the beams or sills C', and are suitably connected by cross bars or slats. The upper surfaces of the bars D' are made concave to receive a cask, barrel, or other package. In the main frame A is pivoted a lever, E, the inner end of which is, by a link, a, connected with the L-shaped frame D D', and the outer end of said lever is held at any point desired by a ratchet plate or bar, b. The barrel or other package, being placed upon the horizontal part of the frame D D', under the filling-cock, can, by this means, be raised and firmly held to it. The filling-cock G, inserted in and projecting from the vat or vessel B, is con-

structed with the cut-off plug d very near the orifice, and with a projection, e, turned down sufficient to enter the bung-hole. On this projection, resting against a shoulder, i, is placed a cushion or washer, h, of rubber or other suitable material, so that no liquid can escape while the package is filling or filled until the same is lowered. m is the vent made through the cock, communicating with a passage, x, in the cut-off plug d when the cock is open, and with a pipe, n, reaching as high as the source from which the package is being filled, so as to prevent loss by neglect or accident.

The plug d is placed near the orifice, so that as little liquid as possible will or can be between the top of package and the plug when filled, as the same will be lost, be it much or little.

In a full-sized cock the plug will be about three-fourths inch from the end, which gives three-eighths inch for cushion or washer and three-eighth-inch projection to enter the bung-hole of package.

In using this device, as the barrel never has to be raised over about four inches, the lifting device above described is preferably made of iron, about twenty-two inches high, and the operator can use his foot on the lever E to raise the package, leaving the hands free to guide the barrel to the cock.

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

The combination of the tank B, a cock, G, provided with a vent, n, that reaches up to or above the highest level of the liquid in the tank, and an elevating-platform to raise the vessel to the cock, substantially as shown.

In testimony that I claim the foregoing I have hereunto set my hand this 13th day of August, 1875.

J. M. HOPKINS.

Witnesses:

HENRY RATTERMAN,
FRANK HERFLIN.