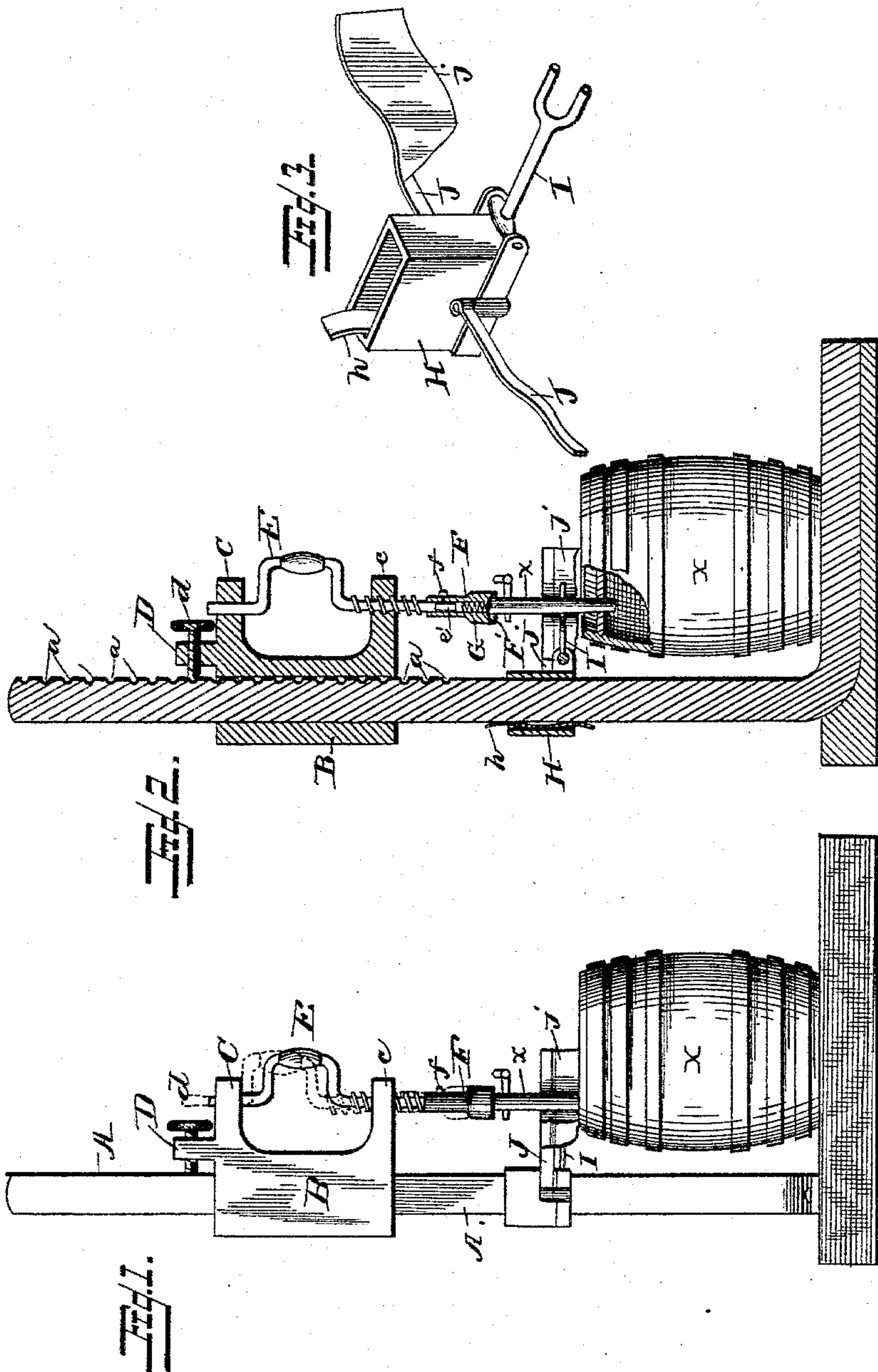


(No Model.)

E. OTT.
KEG TAPPING APPARATUS.

No. 490,039.

Patented Jan. 17, 1893.



Witnesses:

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UNITED STATES PATENT OFFICE.

ERNST OTT, OF ALEXANDRIA, VIRGINIA.

KEG-TAPPING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 490,039, dated January 17, 1893.

Application filed April 9, 1892. Serial No. 428,538. (No model.)

To all whom it may concern:

Be it known that I, ERNST OTT, of Alexandria, in the county of Alexandria and State of Virginia, have invented certain new and useful Improvements in Keg-Tapping Apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

This invention is an improved machine for setting faucets in kegs, and is especially designed for use in putting faucets in kegs, barrels &c., containing effervescing liquids. It is also designed for forcing in the corks, or bungs of bottles, kegs &c., and may be used to simultaneously force in the bung and insert and set the faucet, as will be hereinafter explained. The device may also be employed for corking bottles, and applying corks or bungs to kegs &c.

The invention consists first in a novel device for forcibly seating the faucets in the kegs, or displacing the stoppers, bungs &c., second; in novel devices whereby when the bung has been forced into the keg, the faucet will be automatically quickly forced in place, thus preventing the escape of liquids or gases, and then may be forcibly seated, third; in a novel guide device for directing and guiding the faucet and preventing the blowing out of liquids over the operator, and lastly, in certain novel details of construction and combinations of such devices as will be hereinafter fully described and claimed.

Referring to the drawings by letters;—Figure 1 is a side elevation showing the crank raised in dotted lines, and lowered in full lines. Fig. 2 is a central longitudinal sectional view through the machine. Fig. 3 is a detail perspective view of the adjustable sliding block.

A represents an upright beam or bar which is rigidly braced and B is a slide vertically movable on said bar having a longitudinal slot through which the bar passes. This slide has two forwardly extending arms C, c, at its upper and lower ends respectively, and from the top of arm C rises a stud D having a horizontal threaded opening in it through which passes a set screw or bolt *d* the inner end of which is adapted to impinge against the edge

of the bar A, and engage one of a series of pits *a, a*, therein as indicated in the drawings. When the bolt is thus set it locks the slide on the bar, and it is obvious by this arrangement the slide may be adjusted and held at any point desired on the bar.

E designates a cranked shaft having its ends journaled in vertical openings in the arms C, c, as shown, the lower end of the shaft being screw threaded and the opening in arm c being also screw threaded so that as the shaft is revolved it will move up or down as is evident.

F is a presser on the lower end of shaft E below arm c having a socket in which the end of said shaft is loosely confined by a screw *f* which engages a groove *e'* in the shaft, said groove being wide so that the head may both rotate on the shaft and also play vertically thereon a certain extent. The lower end of the presser is preferably concaved as shown at F'.

G is a coiled spring in the socket of the sleeve interposed between the end of shaft E and bottom of socket and tending to forcibly hold the presser down.

H is a smaller slide on bar A below slide B and retained in any position to which it is adjusted thereon by a spring *h*.

I is a guide rod pivoted or hinged to the front lower end of said slide as shown, and having its free outer end preferably bifurcated as shown. This guide is of such length that when in a horizontal position its bifurcated end is below the presser F.

J, J, are arms hinged to the opposite sides of slide H, and carrying fenders *j, j*, of any suitable material.

In applying a faucet to a beer keg, for instance, the operation is as follows;—The keg X is set on end beside the bar A and below the slides. Slide H is then adjusted until guide I in a horizontal position, lies close over the head of the keg. The latter is then shifted until the faucet opening, which is however corked or plugged at this time, is directly within the bifurcations of the guide. Slide B is then adjusted on bar A until the lower end of presser F stands about a faucet's-length above the keg. A faucet *x* is then slipped under the presser, its tap end resting on the plug or cork in the keg, and its head under

the presser, in this position the faucet is exactly vertical. Shaft E is then turned so as to screw down; this first compresses spring G until the movement of the presser on the shaft is stopped and then the further screwing down of the shaft forcibly depresses the faucet and causes it to force in the plug or stopper the moment the plug is forced into the keg, thus allowing the faucet to enter the opening freely, the spring G drives the presser down and thereby immediately seats the faucet in the opening, without any, or scarcely any, opportunity for the fluid or gas to escape from the keg.

The guide I assists in keeping the end of faucet over the plug, and the fenders *j, j*, may be closed about the faucet just before the final operation, so that if any liquid should perchance effervesce out of the plug or faucet, it will not splatter the attendant.

Obviously the device can be used for seating plugs, stoppers, bungs &c., in bottles, barrels &c., to seal the latter as well as for forcing the plugs into the barrel. Both slides can be quickly adjusted up or down to suit varying heights of vessels.

Having described my invention what I claim as new and desire to secure by Letters Patent thereon is;—

1. The combination of a screw shaft, with a presser on the lower end thereof having a limited amount of vertical movement, on said shaft and a spring for keeping said presser down, substantially as described.

2. The combination of a vertically movable shaft, with a presser connected to the lower end thereof so as to have both a rotary and a limited vertical movement in relation to the shaft, and a spring for keeping said presser down, substantially as and for the purpose specified.

3. The combination with a vertical bar, a slide adjustably mounted thereon, a screw shaft carried by said slide, and a presser on the lower end of said shaft, substantially as described.

4. The combination in a keg tapping apparatus with the vertically adjustable presser shaft, of the adjustable faucet guide below

the same, substantially as and for the purpose set forth.

5. The combination in a keg tapping apparatus of the vertical bar the adjustable slide thereon carrying a screw shaft for the purpose specified, in combination with a second slide on said bar below the first, carrying a guide rod and adjustable fenders, substantially as described.

6. The combination in a keg tapping apparatus of the vertical bar the adjustable slide thereon having forwardly extending arms, the cranked shaft journaled in said arms and having a screw thread connection therewith so that it rises or falls, when turned, substantially as specified.

7. The combination of the vertical bar the adjustable slide thereon having forwardly extending arms, the cranked shaft journaled in said arms and having screw thread connection therewith so that it rises or falls when turned, and a spring controlled presser block attached to the lower end of said shaft, substantially as described.

8. The combination in a keg tapping apparatus of the vertical bar the adjustable slide thereon having forwardly extending arms, the cranked shaft journaled in said arms and having a screw thread connection therewith so that it rises or falls when turned, and an adjustable faucet guide below said slide, substantially as set forth.

9. The combination of the vertical bar the adjustable slide thereon having forwardly extending arms, the cranked shaft journaled in said arms and having screw thread connection therewith so that it rises or falls when turned, and a spring controlled presser block attached to the lower end of said shaft, and an adjustable bifurcated faucet guide below the slide, all constructed and arranged to operate substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ERNST OTT.

Witnesses:

WILLIAM FISCHER,
JAMES R. MANSFIELD.