

No. 679,201.

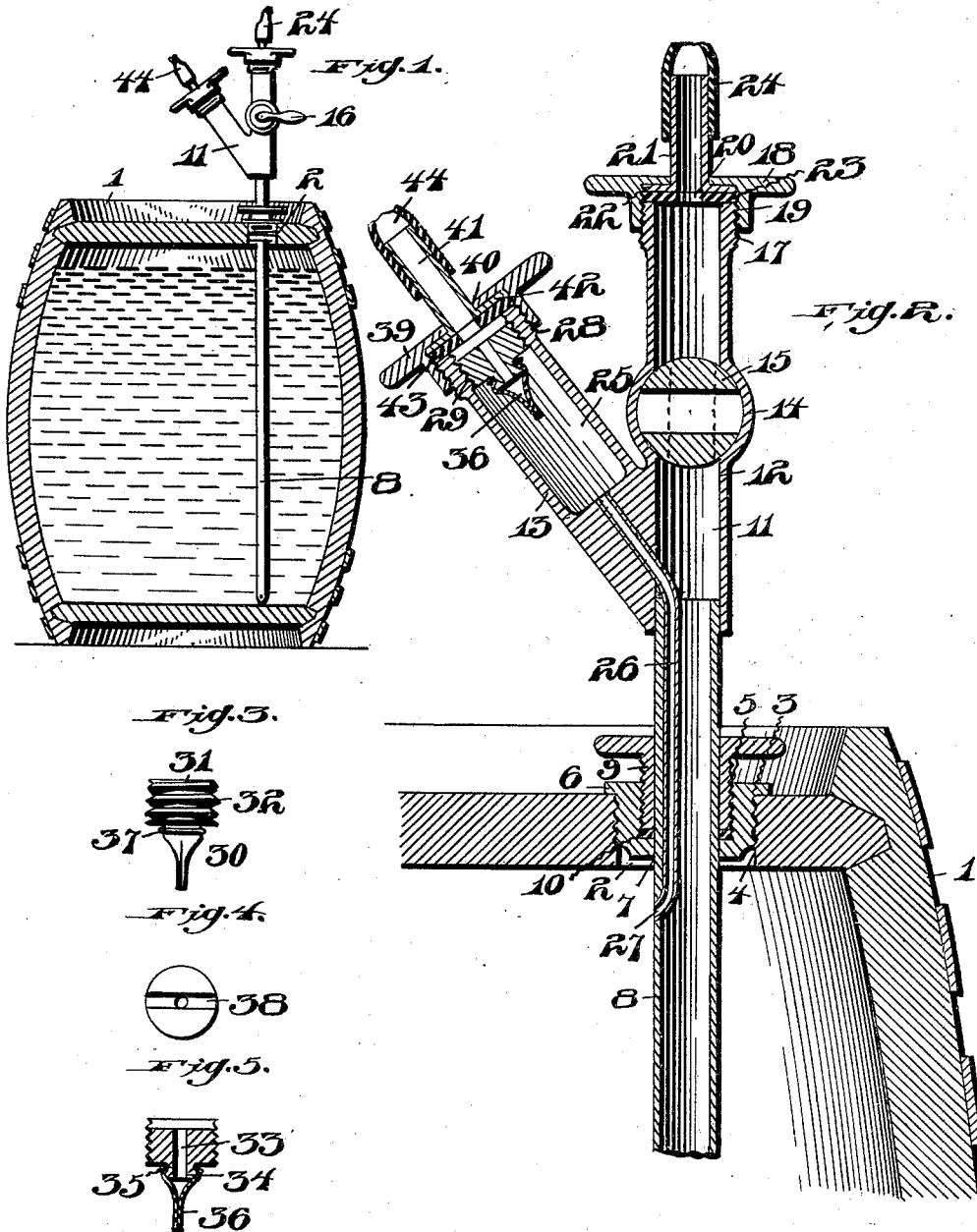
Patented July 23, 1901.

W. ALLISON & P. H. KEEFE.

LIQUID DRAWING DEVICE.

(Application filed July 20, 1900.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM ALLISON AND PATRICK H. KEEFE, OF PITTSBURG, PENNSYLVANIA.

LIQUID-DRAWING DEVICE.

SPECIFICATION forming part of Letters Patent No. 679,201, dated July 23, 1901.

Application filed July 20, 1900. Serial No. 24,316. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM ALLISON and PATRICK H. KEEFE, citizens of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Liquid-Drawing Devices, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in liquid-drawing devices, and more particularly to beer-tapping devices.

The invention has for its object the provision of novel means whereby beer or other malt liquors may be efficiently drawn from a barrel or keg without incurring a loss of the carbonated gases; furthermore, to produce a device that will be extremely simple in its construction, strong, durable, and comparatively inexpensive to manufacture.

The present invention further aims to construct an apparatus of the above-described class that may be readily attached to a barrel or keg and easily removed therefrom; furthermore, a device that may be operated in conjunction with an air-pump or any suitable air-pressure tank usually employed for this purpose.

With the above and other objects in view the herein-described invention finally consists in certain novel features of construction, combination, and arrangement of parts to be hereinafter more particularly described, and specifically pointed out in the claim.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

Figure 1 is a vertical sectional view of a barrel with our improved apparatus attached thereto. Fig. 2 is a similar enlarged view of the apparatus and a portion of the barrel. Fig. 3 is a detail view of the air-valve. Fig. 4 is a top plan view of the same. Fig. 5 is a vertical sectional view of the same.

In the drawings the reference-numeral 1 indicates the barrel or keg, which is provided

with the usual outlet 2, arranged in the head of the barrel.

The reference-numeral 3 indicates a collar, carrying on its periphery screw-threads 4. This collar is also interiorly screw-threaded, as shown at 5, and a flange 6 extends outwardly from the periphery, the latter being formed integral with the collar. A contracted opening 7 is arranged in the lower portion of the collar, the latter being adapted to receive the beer-discharge pipe 8, extending downwardly into the barrel. This pipe 8 carries a removable collar 9, the latter being exteriorly screw-threaded and adapted to engage the interiorly-screw-threaded portion 5 of the collar 3. A gasket or flexible washer 10 is interiorly arranged in the collar 3 above the contracted opening and the lower extremity of the collar 9. To the upper end of the discharge-pipe 8 is rigidly secured a twin coupling 11, forming on one side an upward extension 12 of the beer-discharge, and on its one side an air-inlet 13, extending upwardly at an angle and formed integral with the said upward extension 12, carries an enlarged portion 14, having seated therein a valve 15, carrying an operating-handle 16. The upper end of the extension 12 is slightly flanged and is provided with exterior screw-threads 17, which are adapted to receive a cap 18, the latter in turn being interiorly screw-threaded, as shown at 19, and provided with a central opening 20, the diameter of which is less than the interior diameter of the extension 12.

A nipple 21 is adapted to snugly fit into the opening 20, said nipple having formed integral therewith, on its lower extremity, an annular flange 22, which is seated under the cap 18. A washer 23 is interposed between the flange 22 and the upper end of the extension. The upper end of the nipple 21 is provided with a flexible tube 24, leading to and connected with a suitable discharge-faucet.

The air-inlet 13 is provided with an enlarged air-chamber 25, communicating with a contracted air-pipe 26, the latter leading into the extension 12 and downwardly through a portion of the beer-discharge pipe 8, terminating into a discharge-port 27, formed in the discharge-pipe 8. The upper end of the air-chamber is exteriorly screw-threaded, as

shown at 28, and is also interiorly screw-threaded, as indicated by the reference-numeral 29, the latter serving to receive the collapsible valve 30, which is formed of a disk 5 31, having exterior screw-threads 32 and a central opening 33 and carrying a boss 34 at its lower end, and a contracted neck portion 35 to receive the flexible collapsible tube 36. The said tube may be fastened to the neck 10 portion by any suitable means, such as a band or wire 37. The upper face of the disk 31 is formed with a slot 38, serving as means to properly seat and adjust the valve within the air-chamber. Thus, if desired, disks hav- 15 ing varying capacities may be applied.

An interiorly-screw-threaded cap 39 engages the screw-threads 28 of the air-chamber, said cap having a central opening 40 to receive the nipple 41, carrying an annular flange 20 42, the latter being adapted to fit in the cap 39, a washer 43 being interposed between the under face of said flange and the end of the air-chamber.

The reference-numeral 44 represents a flexible tube connected to the nipple 41, said tube 25 leading to a pump or air-pressure tank, as the case may be.

In view of the above detail description of the various parts it is thought a description 30 as to the operation of the device is unnecessary. It will be noted, however, that various changes may be made in the details of construction without departing from the general spirit of our invention.

35 Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a liquid-drawing device, the combination of a barrel and vertical beer-discharge pipe arranged in said barrel, a suitable packing 40 arranged in said barrel and engaging said discharge-pipe, an upward extension secured to the upper end of said discharge-pipe, an air-inlet pipe formed integral with said upwardly- 45 extending pipe and arranged at an angle thereto, a contracted air-pipe communicating with a contracted air-pipe extending downwardly through the beer-discharge pipe into said barrel, a removable disk having a central opening, a boss arranged on the under 50 side of said disk, and a contracted neck portion between said boss and said disk, a collapsible check-valve arranged upon said neck and boss in the interior upper extension of said air-pipe; a valve arranged in said up- 55 ward extension, exterior screw-threads arranged at the upper ends of said upward extension and air-pipe, interiorly-screw-threaded caps each having a central opening formed therein secured upon said screw-threaded por- 60 tions, nipples, flanges on said nipples seated in said screw-threaded cap, a washer interposed between the under face of said flanges and the ends of said pipes and flexible caps secured to the ends of said nipples, all parts 65 being arranged and operating substantially as herein shown and for the purpose set forth.

In testimony whereof we affix our signatures in the presence of two witnesses.

WILLIAM ALLISON.
PATRICK H. KEEFE.

Witnesses:

JOHN NOLAND,
H. C. EVERT.