E. T. MURPHY.

Faucet-Hole Attachment to Barrels.

No. 203,638. Patented May 14, 1878.

Fig: 1.

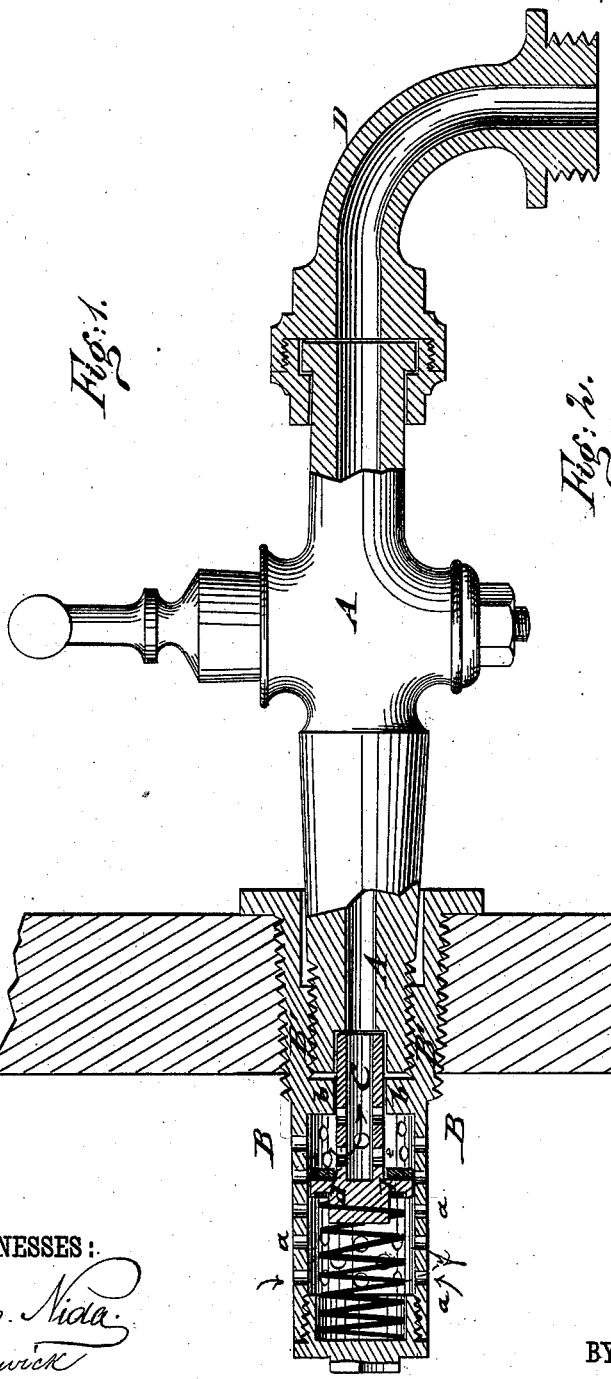
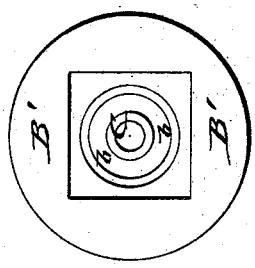


Fig: 2.



WITNESSES:

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EDWARD T. MURPHY, OF CAMBRIDGEPORT, MASSACHUSETTS.

IMPROVEMENT IN FAUCET-HOLE ATTACHMENTS TO BARRELS.

Specification forming part of Letters Patent No. **203,638**, dated May 14, 1878; application filed April 6, 1878.

To all whom it may concern:

Be it known that I, EDWARD T. MURPHY, of Cambridgeport, in the county of Middlesex and State of Massachusetts, have invented a new and Improved Faucet-Hole Attachment to Barrels, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a vertical longitudinal section of my improved faucet-hole attachment to barrels, and Fig. 2 an end view of the same with faucet detached.

Similar letters of reference indicate corresponding parts.

This invention relates to an improved faucet-hole attachment for beer and ale barrels, by which the barrel may be tapped in convenient manner by merely screwing the faucet into the attachment, the barrel being automatically closed on removing the faucet.

The invention consists of a faucet-hole attachment applied permanently to the barrel-head, and operated by the inserting or taking out of the faucet, that actuates a spring-acted slide-tube of the faucet-hole bushing.

Referring to the drawing, A represents a faucet, of the usual construction; and B, a faucet-hole attachment, that is screwed permanently to the head of the barrel by means of an exterior-threaded cylindrical bushing, B′. The bushing B′ is extended back of its threaded part into the barrel, and provided with a number of perforations, *a*, the rear end being closed by a detachable screw-plug. The bushing is screwed into the faucet hole of the barrel by a wrench inserted into the square recess in the front end, or by a key and key-hole, or in other suitable manner, and provided with an interior-threaded portion and guide-shoulder *b*.

A slide-tube, *c*, is guided by the shoulder *b* of the bushing B′ and by a rear collar, *d*, in the cylindrical rear part of the same. The slide-tube is closed at the rear end and open at the front end, and arranged with a packing in front of the collar *d*, and with perforations *e* in front of the packing. The rear part is acted upon by a spiral spring, *f*, that is interposed between the rear plug of the bushing and the rear collar of the slide-tube, so as to force the latter through the guide-shoulder of the bushing to some distance in front of the shoulder.

By screwing the threaded end of the faucet into the bushing an interior shoulder of the faucet-barrel engages the front end of the sliding and spring-acted tube C, so as to force the same back sufficiently to carry its packed rear collar back of the perforations of the bushing B′, and admit thereby the passage of the liquid from the barrel through the perforations of the bushing and of the sliding tube to the faucet, and then to the outside, to be drawn off on opening the faucet.

By unscrewing the faucet from the bushing the spiral spring at the interior of the same returns the slide-tube, and presses its packed rear collar tightly against the shoulder of the bushing, so as to produce by the packing the tight closing of the attachment. The escape of the liquid is thereby prevented, and the barrel closed in perfectly air-tight manner.

To the front end of the faucet is applied, by a swivel-joint, a curved coupling-piece, D, that may be turned in any direction following the direction of the hose, and that is always tight without unscrewing, and produces a saving in conducting-pipes.

The faucet-hole attachment is secured permanently to the barrel, and closes the same automatically as soon as the faucet is detached, so as to keep the interior of the barrel perfectly sweet and clean, and admit the tapping of the barrel with great facility without the annoyance of the present mode of tapping ale and beer barrels.

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

The combination of the bushing B′, having perforations *a*, shoulder *b*, and plug at inner end, the spring slide-tube C, having collar *d*, and the faucet A, said tube being guided by shoulder *b* into a socket of the faucet, as shown and described.

EDWARD THOMAS MURPHY.

Witnesses:
JAMES W. CASEY,
JOHN CAIN.