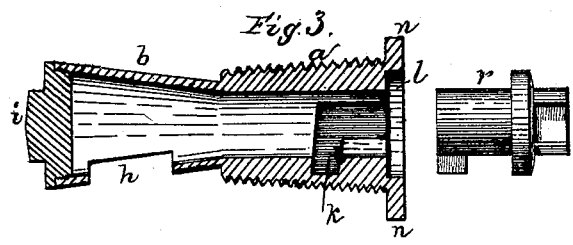
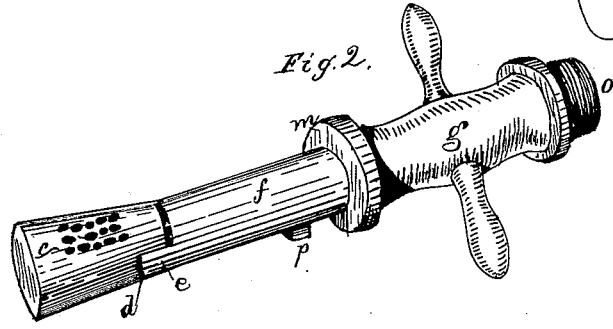
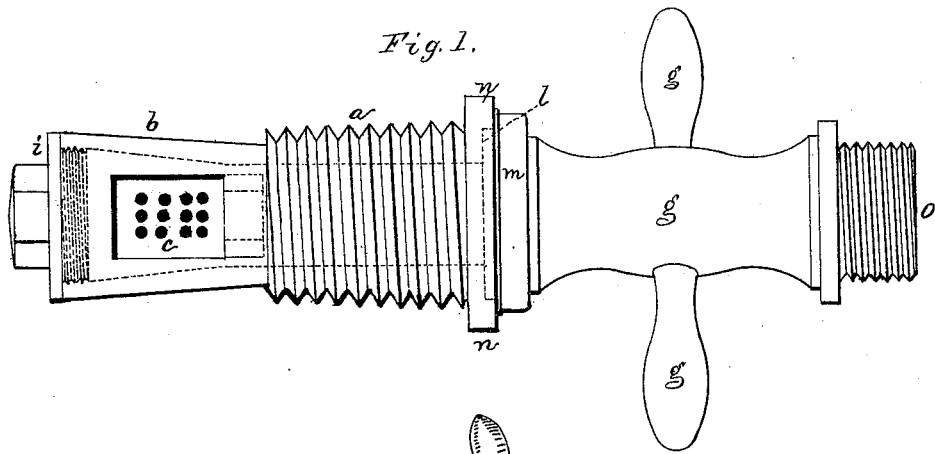


M. A. FARRELL.  
 Combined Tap and Faucet.

No. 201,172.

Patented March 12, 1878.



Witnesses.  
 L. H. Latimer.  
 S. Roebuck

Inventor.  
 M. A. Farrell  
 by J. H. Adams Atty.

# UNITED STATES PATENT OFFICE.

MICHAEL A. FARRELL, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN COMBINED TAP AND FAUCET.

Specification forming part of Letters Patent No. **201,172**, dated March 12, 1878; application filed August 11, 1877.

*To all whom it may concern:*

Be it known that I, MICHAEL A. FARRELL, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Combined Tap and Faucet, of which the following is a specification:

The object of my invention is to produce a combined tap and faucet which is designed to be permanently attached to a barrel, cask, or keg, for drawing off the contents of the same, and by means of which the inconvenience and expense of applying a faucet to a barrel, &c., every time the same is to be tapped when re-filled are avoided.

The invention consists in certain novel arrangements or combinations of parts, all of which will be hereinafter first fully described, and then pointed out in the claims.

The plug is turned so as to admit of the passage of the liquid by means of a separate wrench or key, which is inserted within the hollow screw-tap, and fits upon the end of the perforated plug.

Referring to the drawings, Figure 1 is a representation of my invention. Fig. 2 is a view, on a reduced scale, of the perforated plug with the wrench or key applied. Fig. 3 represents the screw-tap and tapering tube in which the perforated plug is incased.

*a* represents a screw-tap, provided with a rim or head, *n*, the outer face of which is to be flush with the outer face of the barrel-head when the tap is inserted in the barrel.

To the inner end of the screw-tap *a*, of which it forms a part, is attached the tapering tube or hollow casing *b*, provided with an opening of a size to correspond with the space occupied by a hole or series of holes in an inner plug, *c*. The plug *c* is hollow, and closed at the outer or larger end, as shown in Fig. 2, and is provided with a number of holes or openings, as shown, on one side.

The inner or smaller end of the plug *c* is open, and formed with two notches, *d d*, which engage with corresponding projections *e* on the body *f* of the wrench *g*, by means of which the plug *c* is turned.

The plug *c* is fitted snugly within the casing *b*, so as to be entirely liquid-tight, and the liquid is designed to escape from the barrel,

&c., through the opening *h* in the casing *b* and the holes in the plug. These holes, while sufficient to admit of the free passage of the liquid to the faucet, serve also as a screen to prevent the passage of any extraneous matter to the faucet. It is also self-cleaning, as any matter adhering to the holes will be scraped off as the plug, in turning, passes the edge of the opening in the casing.

The outer end of the screw-plug is provided with a cap, *r*, to be screwed into the same when the barrel is on storage or in transportation, to prevent the entrance of dirt, &c., into the same, (or a hinged cap may be adapted to the opening;) and the inner end is also provided with a screw-cap to protect the plug.

The wrench or key is composed of a handle, *g* and body *f*, separated by the rim or head *m*. The rim or head is to be provided with a packing that fits within a recess, *l*, in the opening of the screw-tap.

On the body *f* of the wrench is a projection, *p*, that enters a rectangular recess, *k*, within the mouth of the screw-tap *a*. By turning body *f* the before-mentioned packing is crowded into recess *l*, as the projection *p* causes said body to advance.

The lower portion of the recess *k* is inclined downward, so that as the projection *p* moves in the same when the wrench is turned, the packing will be tightened in the mouth of the screw-tap, and prevent the escape of any liquid at that place.

The wrench is made hollow, and is provided on its outer end with a screw-thread, for the attachment of connections for conducting the liquid to the faucet; or a faucet may be attached directly to the wrench.

The outer end of the screw-plug is designed to be made flush with the face of the barrel or keg, so that the usual revenue-stamp may be pasted over the same.

My invention will be found equally useful in families as with large dealers.

By having the barrel, &c., kept closed against the entrance of air after the liquid has been drawn off, it is kept from souring, and is much more easily cleaned.

In families, the contents of the barrel can

be kept safe against deprecations by withdrawing the wrench or key, without which the liquid cannot be drawn from the barrel.

What I claim as my invention is—

1. The combination of the tapering tube or casing *b*, its inclosed plug *c*, and the screw-tap *a*, carrying the screw-plug *i*, for the purpose of holding and crowding plug *c* to its seat, substantially as and for the purpose specified.

2. The combination, with the tapering plug *c*, of the hollow key or wrench *f*, provided with rim *m*, adapted to crowd a packing-gasket within the recess *l* of the screw-tap, substantially as and for the purposes set forth.

3. The combination of the wrench or key *f*, provided with a projection, *p*, with the screw-tap *a*, provided with the rectangular and inclined recess *k*, as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

M. A. FARRELL.

Witnesses:

J. H. ADAMS,  
JOHN H. FARRELL.