

(No Model.)

M. ANTHONY.
FAUCET AND BUSHING.

No. 487,206.

Patented Nov. 29, 1892.

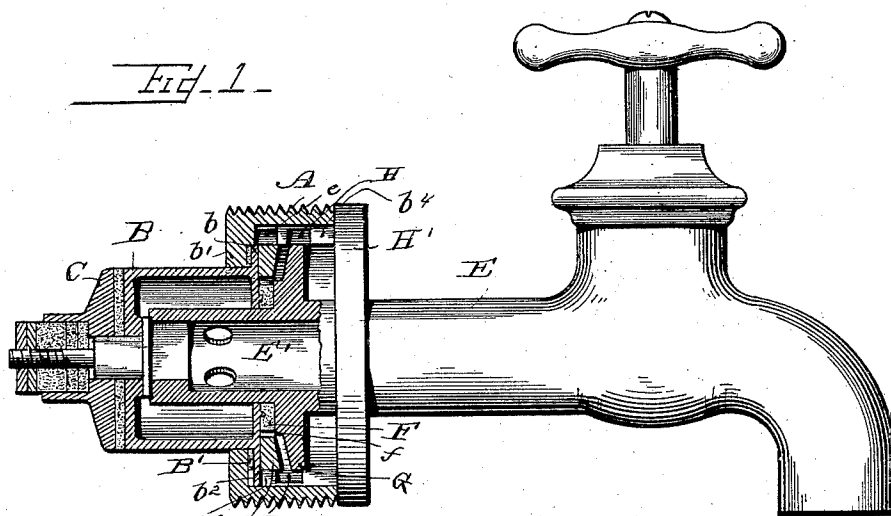


Fig. 2

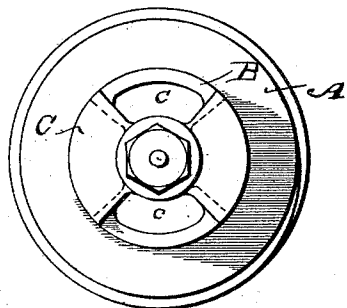


Fig. 3

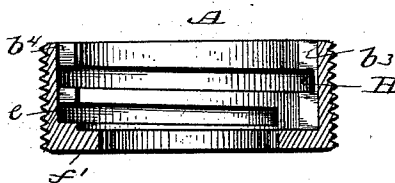


Fig. 5

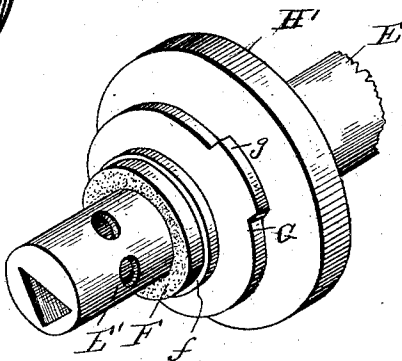
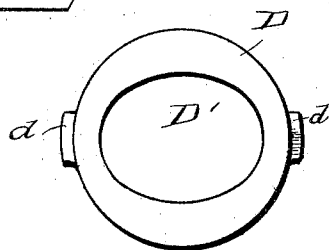


Fig. 4



Witnesses
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UNITED STATES PATENT OFFICE.

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FAUCET AND BUSHING.

SPECIFICATION forming part of Letters Patent No. 487,206, dated November 29, 1892.

Application filed January 16, 1892. Serial No. 418,300. (No model.)

To all whom it may concern:

Be it known that I, MARK ANTHONY, a citizen of the United States, and a resident of Berkeley, in the county of Alameda and State of California, have invented certain new and useful Improvements in Faucets and Bushings; and I do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a vertical longitudinal section of the invention. Fig. 2 is a plan view looking from the rear. Fig. 3 is a vertical section through the bushing. Fig. 4 is a detail view of the ring. Fig. 5 is a perspective view of the faucet.

This invention has relation to certain improvements in faucets and bushings therefor; and it consists in the novel construction and combination of parts, as hereinafter specified.

The invention relates more particularly to certain improvements upon similar devices for which Letters Patent were granted me April 6, 1886, No. 339,252, and March 31, 1891, No. 449,513; and it consists especially in the manner of connecting the faucet or tap with the bushing.

In the accompanying drawings the letter A designates a circular bushing having an external thread for retaining it in place in the tap-hole.

B designates a cylindrical shell having a flanged head *b*, seated on an interior flange *b'* in the lower end of the bushing A, and a reduced portion projecting through the lower end of said bushing. Between the head *b* and flange *b'* is held an annular packing-ring *B'*. The shell is prevented from turning in the bushing by means of a lug or projection *b²* on the head *b*, which engages a vertical recess *b³* in the wall of said bushing. In the lower end of the shell is a port or ports *c c*, controlled by a valve C, which may be of the construction described in either of the patents above referred to. The shell is locked in the bushing by means of an annular lock-nut D, formed with lugs *d*, located at diamet-

rically-opposite points and engaging annular inclined ways or grooves *e* in the inner wall of the bushing. Said nut is formed with an oval-shaped opening *D'*, designed for engagement with a wrench of similar form, by means of which it is inserted and removed, a partial rotation causing the lugs to enter or to pass out of said inclined ways or grooves into alignment with the vertical notches *b³* and *b⁴* of the bushing.

E designates the faucet or tap having a perforated lower portion *E'*, which enters the chamber in the interior of the plug and is formed with a triangular opening in its inner end for engagement with the similarly-shaped head or stem of the valve in the same manner as in my former patents referred to above. Above the perforated portion *E'* is an annular packing-ring F, held around the central hollow stem against a shoulder or flange *f* thereon. The seat for this ring is formed in the upper end of the shell B, around the aperture through which the faucet extends, instead of some distance therein, as in my former patents. By forming the seat on the upper end the shell may be made considerably shorter than would otherwise be possible. This is an important feature, as an elongated shell when used with small kegs or packages or those formed of thin staves projects into the interior of the barrel to such an extent as to prevent the contents being all drawn off through the faucet.

Above the packing-ring is a disk-like flange G, at diametrically-opposite points in which are formed segmental lugs *g*, which enter inclined annular grooves or ways H on the interior wall of the bushing above the grooves *e* and similar thereto, said lugs and grooves forming the fastenings for the parts. In my former patents these ways or grooves were formed in the part corresponding to the shell B in this application. An advantage in forming them in the outer bushing is that they not only allow the shell to be made shorter, (the purpose of which is above set forth,) but that they also allow it to be made of less diameter. When the grooves are formed in the shell and an outer bushing is used therefor, the diameter of the shell must be increased to an extent corresponding to the length of

the lugs on the faucet; but by forming them in the outer bushing, which projects beyond the outer end of the shell, said shell may be of considerably less diameter, at the same time giving sufficient interior space for the free flow of the contents of the package into the faucet. This is important, inasmuch as it is objectionable to bore a large tap-hole in a small package.

- 10 It is requisite that an outer bushing be used in cases where the interior pressure is strong, although it may be dispensed with when the pressure is slight, and it is for use in connection with the former class that this device is especially adapted.

15 H' is a broad disk-like flange on the faucet, fitting on the outer end of the bushing A and serving as a cap therefor.

- 20 Having described this invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the bushing having in its interior wall two sets of oppositely-inclined ways or grooves, of the shell having

the valve seating in said bushing and the lock-nut or ring for holding said shell in place and formed with lugs engaging one set of said ways or grooves of the faucet, having the lugs formed thereon adapted to engage the other set of said ways above the outer end of said shell, substantially as specified.

2. In a faucet and bushing device for barrels and other packages, the combination, with the shortened valve-shell, the valve, the lock-ring for said shell and the faucet, of the exteriorly-threaded bushing in which said shell seats, said bushing having therein above the end of the shell a double set of inclined ways or grooves, one of which is engaged by said lock-ring and the other by lugs or projections on said faucet, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

MARK ANTHONY.

Witnesses:

PHILIP C. MASI,
GEORGE H. PARMELEE.