

G. GAITHER.
COMBINATION FAUCET.
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1,059,138.

Patented Apr. 15, 1913.

2 SHEETS—SHEET 1.

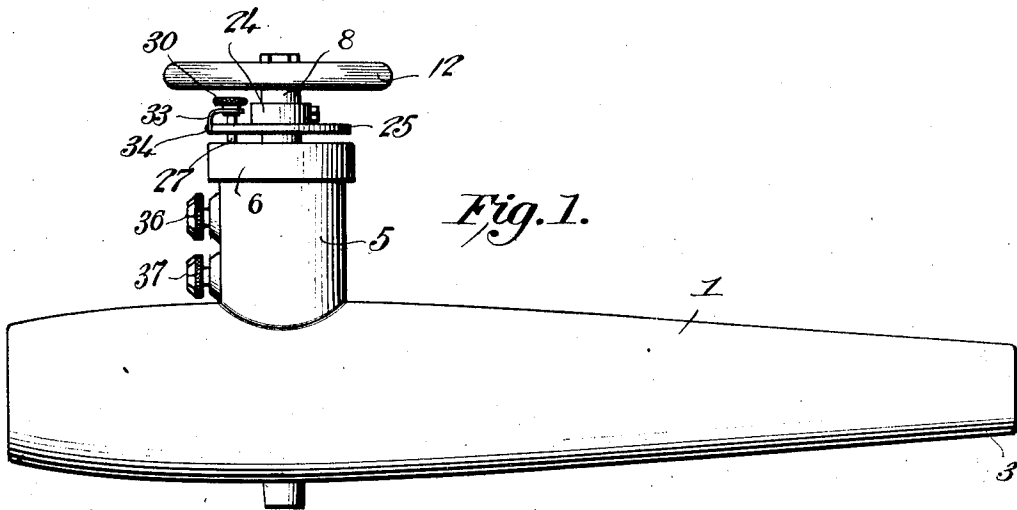


Fig. 1.

Fig. 6.

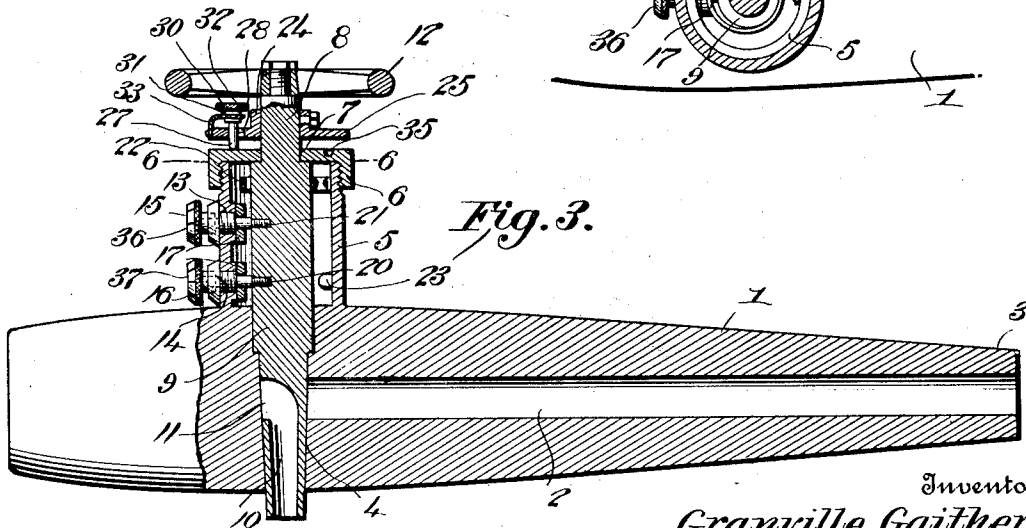
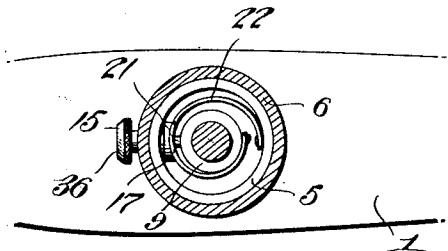


Fig. 3.

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2 SHEETS—SHEET 2.

Fig. 5.

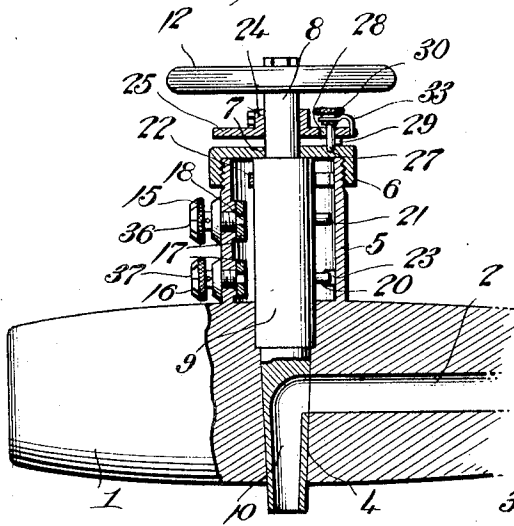


Fig. 4.

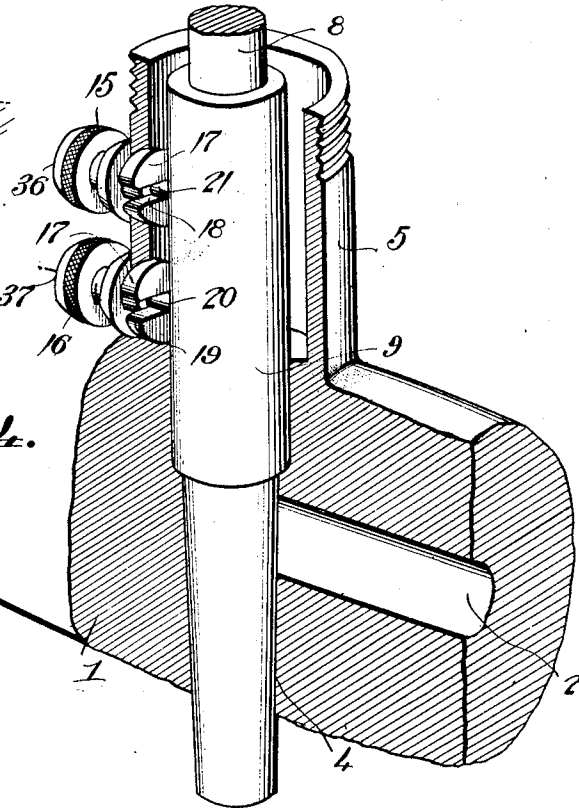


Fig. 2.

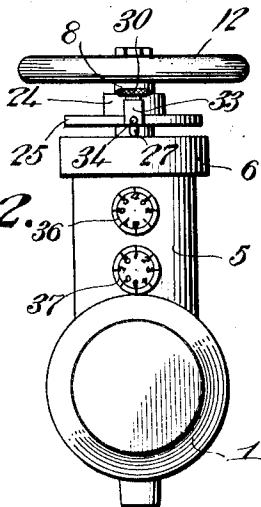
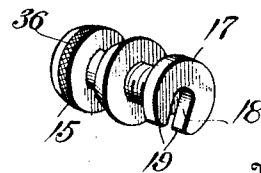


Fig. 7.



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UNITED STATES PATENT OFFICE.

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COMBINATION-FAUCET.

1,059,138.

Specification of Letters Patent.

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Application filed October 11, 1912. Serial No. 725,258.

To all whom it may concern:

Be it known that I, GRANVILLE GAITHER, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Combination-Faucets, of which the following is a specification.

This invention relates to a faucet adapted to be attached to a barrel containing liquid of some sort, or some such dispensing receptacle; the primary object thereof being to provide means for locking the hand-controlled valve plug forming a part thereof when the same is in its closed position and the flow of liquid is cut off.

A further object is the provision of a combination lock peculiarly adapted to lock the valve plug in closed position, so that unauthorized persons cannot release the locking means.

A still further object is to provide means for normally maintaining the valve plug in closed position and adapted to return the same to closed position upon release of the handle by which the valve plug may be turned into opened position, thus preventing danger of excessive flow of liquid, due to inattention on the part of the one dispensing the same.

Another object of the invention is to provide means by which the valve plug may be locked in opened position when it is desired to let the flow of liquid continue for some time, attention thereto being rendered unnecessary.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings:—Figure 1 is a side elevation of the device; Fig. 2 is a front elevation thereof; Fig. 3 is a longitudinal sectional view, taken through the device, and showing the valve plug in closed position with the locking members in open releasing position; Fig. 4 is a fragmentary perspective view, showing the valve plug in closed position and the locking members in locking position; Fig. 5 is a longitudinal, vertical sectional view through a portion of the device, showing the valve plug in open position and the means for locking the plug in open position operative; Fig. 6 is a transverse sectional view, taken on the line 6—6

of Fig. 3; and Fig. 7 is a detail perspective view of one of the locking members.

Referring to the drawings, the numeral 1 designates the main body of the faucet which is constructed of any suitable material and which is provided with a longitudinal passageway 2 therein extending inwardly from its inner attaching end 3 and communicating with a vertically-disposed plug opening 4 also provided in the said body. A cylindrical lock casing 5 is formed upon the body 1 around the upper end of the valve plug opening 4; the upper end of said casing being exteriorly screw-threaded for the reception of an internally threaded cap 6, which is adapted to close the upper end of the casing and is provided centrally with a bearing opening 7 for the reception of the upper reduced end 8 of the valve plug 9 which extends downwardly through the casing 5 into the valve opening 4 in the body of the device. The lower portion of the valve plug 9 is provided with a longitudinal-discharge opening 10 having a lateral extension 11 adapted to aline with the passageway 2 when the valve plug is turned into open position by grasping the detachable handle 12 secured to the upper end of the valve plug.

The front wall of the valve casing 5 is provided with a pair of vertically spaced, cylindrical openings 13 and 14 for the reception of a pair of locking members 15 and 16, respectively, whose inner ends are provided with flanged heads 17 having a lateral slot 18 provided therein and extending from one edge thereof to the center of the head. The outer ends of said slots are flared, as at 19, to provide mouths for the reception of a pair of vertically spaced studs or pins 20 and 21 secured to the valve plug 9 on the same side as the lateral extension 11 of the discharge opening 10. A flat coiled spring 22 surrounds the body portion of the valve plug 9 adjacent the upper end of the lock casing and has one end secured to said plug and the other end to the casing. This spring serves normally to maintain the valve plug in closed position with the pins 20 and 21 within the slots 18 of the locking members 15 and 16, respectively. A lug 23 extends inwardly from the inner wall of the lock casing and is adapted to be engaged by the pin 20 when the valve plug is in open position, so as to limit the movement thereof.

A collar 24 provided with an annular

flange 25 is secured to the reduced end 8 of the valve plug immediately above the cap 6 and is provided in the side adjacent the pins 20 and 21 with a vertically disposed opening 26 for the reception of a securing pin 27, this opening 26 being longitudinally slotted, as at 28, for the reception of a laterally extending lug 29 formed on the said pin 27. The upper end of the pin 27 is enlarged to provide a knurled head 30 having a peripheral slot 31 provided in its lower portion for the reception of the bifurcated ends 32 of an angular spring member 33 whose outer end is adapted to be detachably secured, as at 34, to the adjacent edge of the flange 25. The spring member 33 is adapted to normally maintain the pin 27 in its uppermost inoperative position with the lug 29 within the slot 28, the lower end of the pin being thus held above the upper surface of the cap 6. When, however, it is desired to lock the valve plug in open position, the knurled head 30 of the pin 27 is depressed, so that the lower end of the pin will become engaged with a recess 35 in said cap 6 on the opposite side from the locking members, and the pin is then rotated so that the lug 29 will become engaged beneath the flange 25 and out of alinement with the slot 28, thus preventing the pin from being drawn into inoperative position, due to the action of the spring 33. In order to release the plug when in closed position, the pin 27 is rotated so as to bring the lug 29 in alinement with the slot 28, when the spring 33 will draw the same into inoperative position and out of engagement with the recess 35. The limiting lug 23 provided within the lock casing serves to limit the motion of the valve plug so that, when the plug is turned into opened position and is checked so that further motion in that direction is prevented, the recess 35 in the cap 6 will be in direct alinement with the securing pin 27, thus facilitating the operation of securing the plug in this position.

The outer ends of the locking members 15 and 16 are provided with circular heads 36 and 37, respectively, whose peripheral edges are knurled to facilitate operation thereof and which are provided with suitable indicia inscribed therein and corresponding to a plurality of circumferentially spaced notches, so that a person entitled to open the lock and thus release the valve plug may rotate the locking members until the proper notches come into alinement, which in this

particular case happens to be the notches identified by the numerals 8 and 1 upon the heads 36 and 37, respectively. Whenever the locking members are brought into this particular position, the slots 18 provided in the innermost heads 17 are in the proper horizontal position necessary to release the pins 20 and 21. When it is desired to lock the pins 20 and 21 in this position, the locking members are rotated so as to throw the slots 18 into such angular positions that it is absolutely impossible for the valve plug to be rotated, the said pins being disposed in this position in prolongation of the longitudinal axes of the locking members, which arrangement permits rotation of the locking means when the pins are abutting the inner ends of their respective slots. From this description, it will be apparent that considerable difficulty would be involved in unlocking the plug without a knowledge of the combination, due to the fact that it requires proper adjustments of both locking members in order to permit release of the plug-carried pins.

Having thus described my invention, what I claim is:—

1. In a device of the class described, a body having a plug opening therein, a valve plug rotatably mounted in said opening, a lock casing formed on said body and surrounding a portion of said plug, a pair of locking members rotatably mounted in said casing, heads formed on the inner ends of said members and each provided with a radial slot therein, locking pins provided upon said valve plug and engageable within said slots, said locking members adapted to be rotated to lock the said pins within their respective slots, and means by which said plug may be rotated when unlocked.

2. In a device of the class described, a body having a plug opening therein, a valve plug rotatably mounted in said plug, a plurality of locking pins provided upon said valve plug, and a plurality of locking members rotatably mounted in the body, each of said members being provided in its inner end with a central opening and a radial slot communicating with said opening for the reception of one of said locking pins.

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

GRANVILLE GAITHER.

Witnesses:

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