

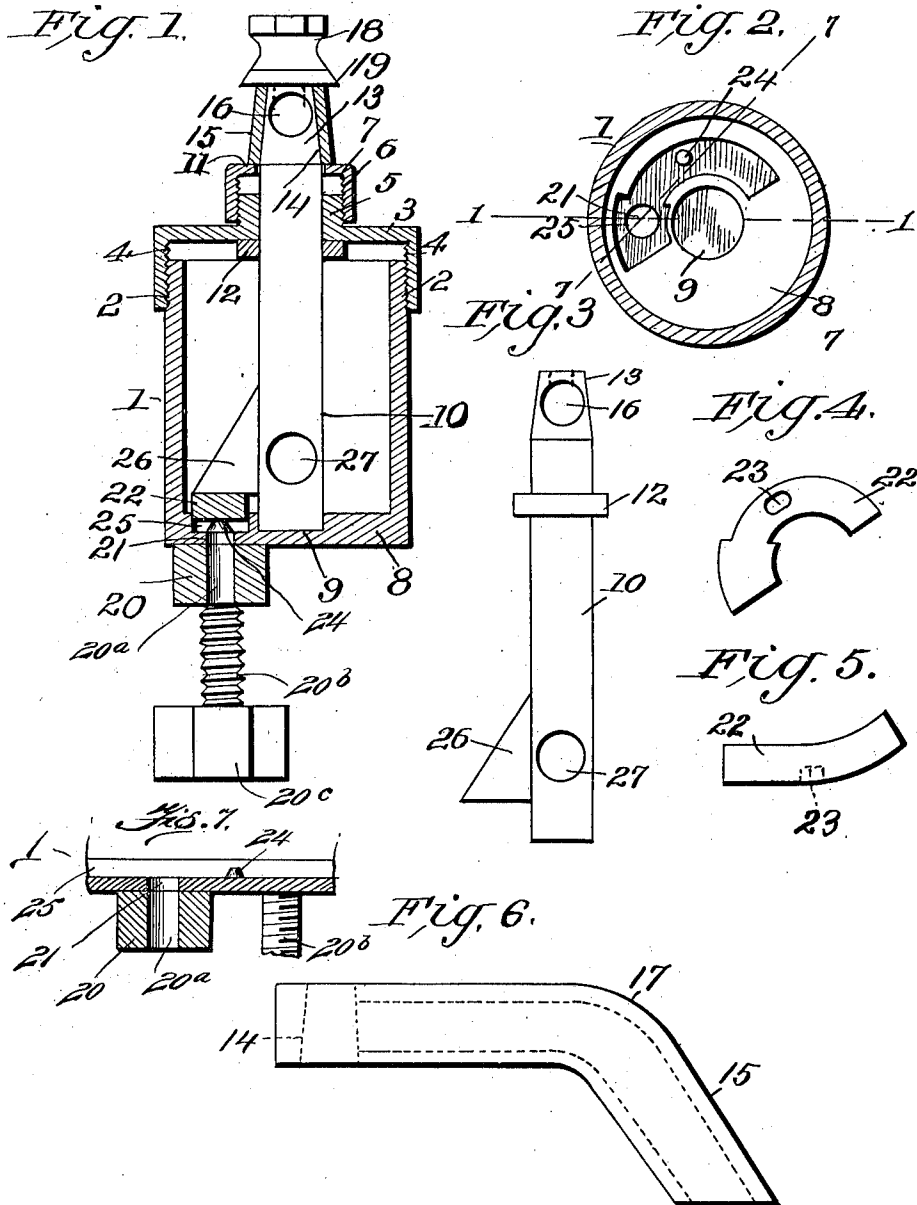
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FAUCET.

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1,026,854.

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Witnesses

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FAUCET.

1,026,854.

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To all whom it may concern:

Be it known that we, FRED A. DUNNEBACKE and EDWARD A. HARRIS, citizens of the United States, residing at Lansing, in the county of Ingham and State of Michigan, have invented certain new and useful Improvements in Faucets; and we do hereby 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.

This invention relates to certain new and useful improvements in faucets or means for controlling the flow of water, steam, air or other fluid, and it has for its objects among others to provide a simple and efficient, yet durable and reliable faucet without a handle, and operable to turn on or shut off the water by a slight movement of the discharge spout of the faucet.

A further object of the invention is to provide a device of this character in which reciprocating valves are dispensed with, thus materially lessening the liability of leakage and the necessity for repairs.

We provide a rocker cut-off with suitable means for actuating the same, controllable by the partial rotation of the delivery spout.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be particularly pointed out in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the numerals of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a sectional view taken on the line 1—1 of Fig. 2; Fig. 2 is a sectional plan view of the cylinder with the tube and the rocker cut-off removed. Fig. 3 is a side elevation of the axial pipe removed. Fig. 4 is a top view of the rocker cut-off removed. Fig. 5 is a front elevation thereof. Fig. 6 is an elevation of the delivery spout removed. Fig. 7 is a sectional view taken on the line 7—7 of Fig. 2.

Like numerals of reference indicate like parts throughout the different views.

Referring to the drawings, 1 designates a cylindrical vessel having the exterior screw threads 2 at its upper end for the reception of the cap or cover 3 interiorly screw-threaded, as at 4, for engagement with the threads 2 of the cylinder, the said cap or

cover having an exteriorly screw-threaded nipple or collar 5 for the reception of the threads 6 of the stuffing box 7. The cylinder is provided with a bottom 8 having a socket or the like 9 for the reception of the lower end of the axial tube 10 which passes axially through the cylinder, through the collar or nipple 5 and through an axial opening 11 in the end of the stuffing box.

12 is a collar on the under side of the end of the cap 3 through which the tube 10 passes and by which it is kept in position.

The outer end of the tube 10 is provided with a tapered portion 13 over which is designed to slidably engage the tapered socket 14 of the discharge or delivery spout 15. The contacting surfaces of the parts 13 and 14 are ground so as to constitute a ground joint, insuring a perfect fit and providing against leakage. In the tapered portion of the tube 10 is a port or passage 16 which, when the parts are in aligned position, communicates with the passage 17 through the discharge spout 15. After the spout is placed in position on the tapered end 13 of the tube, a screw cap 18 is applied, the same having threaded engagement within the end of the tube and a shoulder 19 to bear against the discharge spout and hold it in position on the tube.

The bottom of the cylinder 1 is provided with a polygonal portion 20 serving to hold the cylinder in position. Polygonal portion 20, has an opening 20^a which registers with the opening 21, and serves to admit water or the like into the faucet. This said polygonal portion is adapted to engage a correspondingly shaped opening located in a receptacle of any sort, and be securely clamped in its proper position by means of a threaded pin 20^b and nut 20^c, carried by the bottom of the cylindrical vessel 1.

21 is an opening in the bottom of the cylinder, while 22 is a rocker cut-off having a slot 23 somewhat elongated, as seen in Fig. 4, in which is received a pin 24 which serves to prevent slipping of the said rocker cut-off. This cut-off lies in the bottom of the cylinder, being disposed in a circular groove 25 therein, as seen in Fig. 1, and controls the mouth or opening 21.

26 is a lug or rider carried by the tube 10 and disposed over the rocker cut-off 22, as seen in Fig. 1, being so disposed that when the spout 15 is turned to open the

mouth at 21, it allows the water to enter the pipe 10 through the opening 27 and thence through said tube and through the port or opening 16 into and through the discharge spout. To turn on the water, all that is necessary to do is to turn the discharge spout 15 a quarter revolution to the right. To shut off the water, the spout is moved in the opposite direction until it assumes its normal position when the flow of water through the tube is cut off. As the parts are returned to their normal position, the lug or rider 26, by reason of its engagement with the rocker cut-off, moves the latter so as to cover the mouth or opening 21. The acting face of the rocker cut-off is preferably provided with a washer of leather or suitable material for an obvious purpose.

From the above, it will be seen that we have devised a simple and efficient form of faucet or device for controlling any and all kinds of pressure pipes whether water, steam, air or other fluid, and while the structural embodiment of the invention as hereinbefore disclosed is what we consider preferable, it is evident that the same is subject to changes, variations and modifications in details, proportions, form or shape of parts, etc., without departing from the spirit of the invention or sacrificing any of its advantages. We, therefore, do not intend to restrict ourselves to the particular construction, proportions, etc., hereinbefore disclosed, but reserve the right to make such changes, variations and modifications as come properly within the scope of the protection prayed.

What is claimed as new is:—

1. In a faucet, a cylinder, a discharge tube extending radially from the cylinder and a rocker cut-off for controlling the flow through said tube.

2. In a faucet, a cylinder, an axial discharge tube therein, a rocker cut-off, and means on the tube for controlling said cut-off.

3. In a faucet, a cylinder, an axial discharge tube therein, a rocker cut-off, means on the tube for controlling said cut-off, and a discharge spout on said tube serving as the means for regulating the discharge.

4. In a faucet, a cylinder, an axial discharge tube therein, a rocker cut-off, and a lug carried by said tube for contact with said rocker cut-off.

5. In a faucet, a cylinder, an axial discharge tube therein, a rocker cut-off, a lug

carried by said tube for contact with said rocker cut-off, and means for retaining the cut-off in position.

6. In a faucet, a cylinder, an axial discharge tube therein, a rocker cut-off, a lug carried by said tube for contact with said rocker cut-off, means for retaining the cut-off in position, and a discharge spout on the outer end of said tube serving as the means for controlling the flow through the tube.

7. In a faucet, a cylinder, an axial discharge tube therein having openings near its opposite ends, a rocker cut-off mounted for rocking movement at the bottom of the cylinder, and means on the tube for actuating said cut-off.

8. In a faucet, a cylinder, an axial discharge tube therein having openings near its opposite ends, a rocker cut-off mounted for rocking movement at the bottom of the cylinder, and means on the tube for actuating said cut-off, said cylinder having its bottom provided with a groove in which said cut-off is disposed.

9. In a faucet, a cylinder, an axial discharge tube therein, a rocker cut-off, means on the tube for controlling the cut-off, and a discharge spout having a socket receiving the outer end of the tube and forming a ground joint therewith.

10. In a faucet, a cylinder, an axial discharge tube therein, a rocker cut-off, means on the tube for controlling the cut-off, a discharge spout having a socket receiving the outer end of the tube and forming a ground joint therewith, and means engaged in the outer end of the tube for holding said spout in position.

11. In a faucet, a cylinder having a socket and a groove in its end, an axial tube having one end engaged in said socket, said tube provided with openings near its opposite ends, a rocker cut-off located in the groove in the end of said cylinder, means on the tube for engagement with said cut-off, a cap on said cylinder, a stuffing box thereon through which said tube passes, and a discharge spout on the outer end of said tube serving as the means for turning off and on the fluid.

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

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