

April 6, 1926.

1,579,567

C. F. SCHRINER

FAUCET

Filed Feb. 3, 1923

Fig. 1

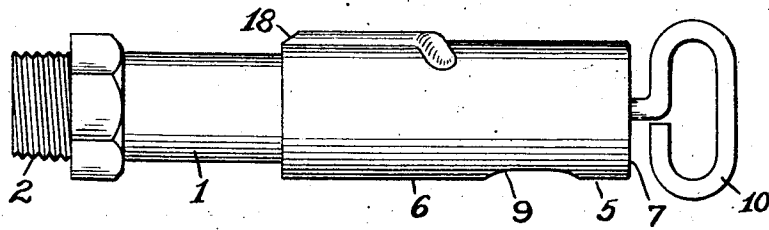


Fig. 2

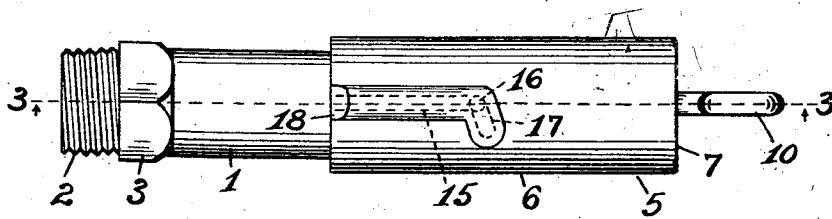


Fig. 3

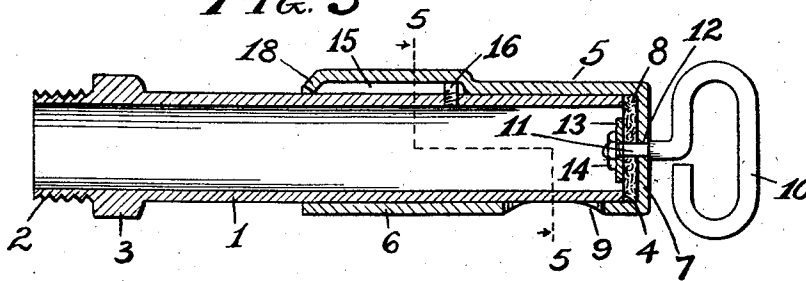
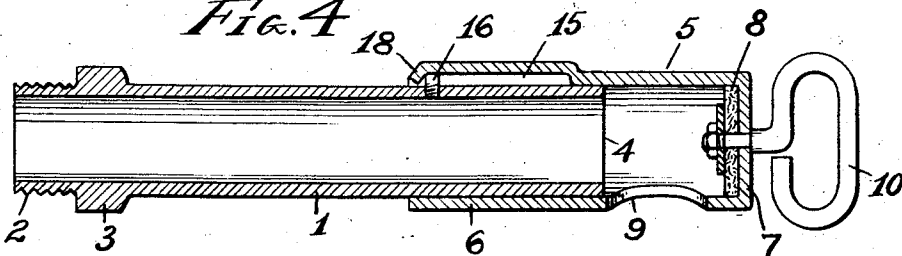
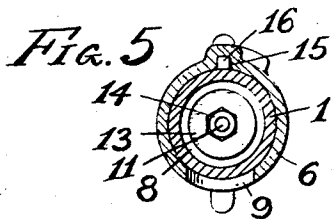


Fig. 4



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UNITED STATES PATENT OFFICE.

CHARLES F. SCHRINER, OF CLEVELAND, OHIO, ASSIGNOR TO THE NATIONAL STEEL BARREL COMPANY, A CORPORATION OF OHIO.

FAUCET.

Application filed February 3, 1923. Serial No. 616,834.

To all whom it may concern:

Be it known that I, CHARLES F. SCHRINER, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Faucets, of which the following is a specification.

This invention relates to faucets, and more particularly to a quick acting faucet for lubricating oils and greases, varnishes, paints and similar semi-liquid substances.

The main object of the invention is to provide a faucet of said character of simple and inexpensive construction, which is easily and quickly operated to give a full flow and closed completely to entirely shut off the flow, and also prevent dripping of the substances from the outlet thereof.

In order that the invention may be clearly understood, the same will be hereinafter fully described with reference to the accompanying drawings, and the novel features thereof will be particularly pointed out in the appended claim.

In the drawings similar characters of reference are used to indicate corresponding parts.

Figure 1 is a side view of a faucet constructed in accordance with my invention,

Fig. 2 is a plan view of the same,

Fig. 3 is longitudinal sectional view taken on line 3—3 of Fig. 2, the faucet being closed,

Fig. 4 is a similar view, the faucet being open, and

Fig. 5 is cross sectional view taken on line 5—5 of Fig. 3.

Referring to the drawings, 1 represents an elongated cylindrical body preferably constructed of a piece of tubular steel or the like, which is provided with external threads at 2 for attachment to a barrel or other receptacle containing lubricating oil or grease by applying a wrench to the nut 3 formed integrally with said body. The outer end of the tubular body 1 is faced off to provide a seat 4. Movably mounted over and snugly fitting the outer end of the tubular body 1 is a cap 5, which is preferably formed of sheet material and consists of an elongated sleeve 6 having an outer closed end 7. A washer 8 of leather or other suitable material is arranged in the closed end 7 of the cap 5 and is adapted to engage the seat 4 for sealing the end of the tubular body 1. The sleeve is provided

with an outlet opening 9 through its wall and near the closed end 7 thereof, and said opening is preferably of the same area as the inside diameter or bore of the tubular body 1. For the purpose of enabling a person to move the cap 5 longitudinally upon the tubular body 1 and also to rotate the cap to cause it to advance so as to bring the sealing washer 8 against its seat 4 as will be hereinafter explained, a suitable handle 10 is fixed to the closed end 7 of the cap. The handle 10 is reduced and provided with a square shank 11, which passes through an opening 12 of the cap and the sealing washer 8. A washer 13 and a nut 14 at the end of the shank of the handle serve to fix the handle to the cap, and at the same time secures the sealing washer 8 in position. The tubular sleeve 6 of the cap is guided longitudinally upon the tubular body 1 by forming a longitudinal channel or groove 15 in the wall of the sleeve for receiving a pin 16 fixed in the tubular body 1, and is advanced, when being turned to the right, to cause the sealing washer 8 to press tightly against the seat 4 of the tubular body, and withdrawn, when being turned in the reverse direction, for causing said sealing washer to be removed from said seat, by forming a channel or groove 17 in the wall of the sleeve and extending at an angle from the longitudinal channel or groove 15. In order to close the open end of the longitudinal channel or groove 15 to serve as a stop for engaging the pin 16 to prevent the cap being removed from the tubular body 1, the end of the wall at the end of said channel or groove is bent downwardly at 18 by striking the same with a hammer. The outlet opening 9 is so positioned with relation to the longitudinal channel or groove 15 and the angular channel or groove 17 in the wall of the sleeve 6 of the cap 5, that when the said cap 5 is pulled forwardly until the downwardly bent end 18 of the channel or groove 15 engages the pin 16, said outlet opening will be beyond the end of the tubular body 1 to give a full flow centrally of the bottom side thereof, all as shown in Fig. 4. To shut off the flow, the cap 5 is pushed rearwardly until the cam channel or groove 17 is opposite the pin 16, and then by turning the handle 10 to the right, the cap will be rotated and forced rearwardly

by its cam channel or groove engaging said pin, which action forces the sealing washer 8 tightly against the seat 4 of the tubular body. To open the faucet, the cap 5 is rotated to the left by turning the handle 10, and the edge of the cam channel or groove 17, by engaging the pin 16, will force the cap outwardly and the sealing washer 8 from its seat 4; and upon the longitudinal channel or groove 15 coming opposite said pin, by pulling upon the handle 10, said cap is pulled longitudinally until the downwardly bent end 18 of the wall of the channel or groove engages the pin 16, when the outlet opening will be beyond the end 4 of the tubular body 1 thus permitting a full flow.

It is thought that the construction and operation of the faucet disclosed will be clearly understood without further explanation, and it is readily seen that this faucet is inexpensive to manufacture, easy and quick to operate, and will not leak when closed. It is to be understood, that although the construction described is capable of accomplishing the intended purpose that slight changes in the details in construction may be made within the scope of the claim.

Having fully described my invention, what I claim is:

In a faucet, the combination of a tubular body, a cap, the cap consisting of a sleeve having a closed end, the sleeve of the cap being movably mounted upon the tubular body, a washer in the cap adjacent to its closed end, the washer of the cap being adapted to seal one end of the tubular body, the sleeve of the cap being provided with an opening adapted to establish communication from said end of the tubular body when the cap is out of engagement with said end, a handle fixed to the cap for moving it longitudinally and rotatably, a pin projecting radially from the tubular body, the sleeve of the cap being provided with a longitudinal groove and an angular extension thereof for receiving the pin to guide the cap to cause the cap to move for pressing its washer against said end of the tubular body and hold it in locked position when the cap is rotated by the handle, substantially as described.

In testimony whereof I affix my signature.

CHARLES F. SCHRINER.