

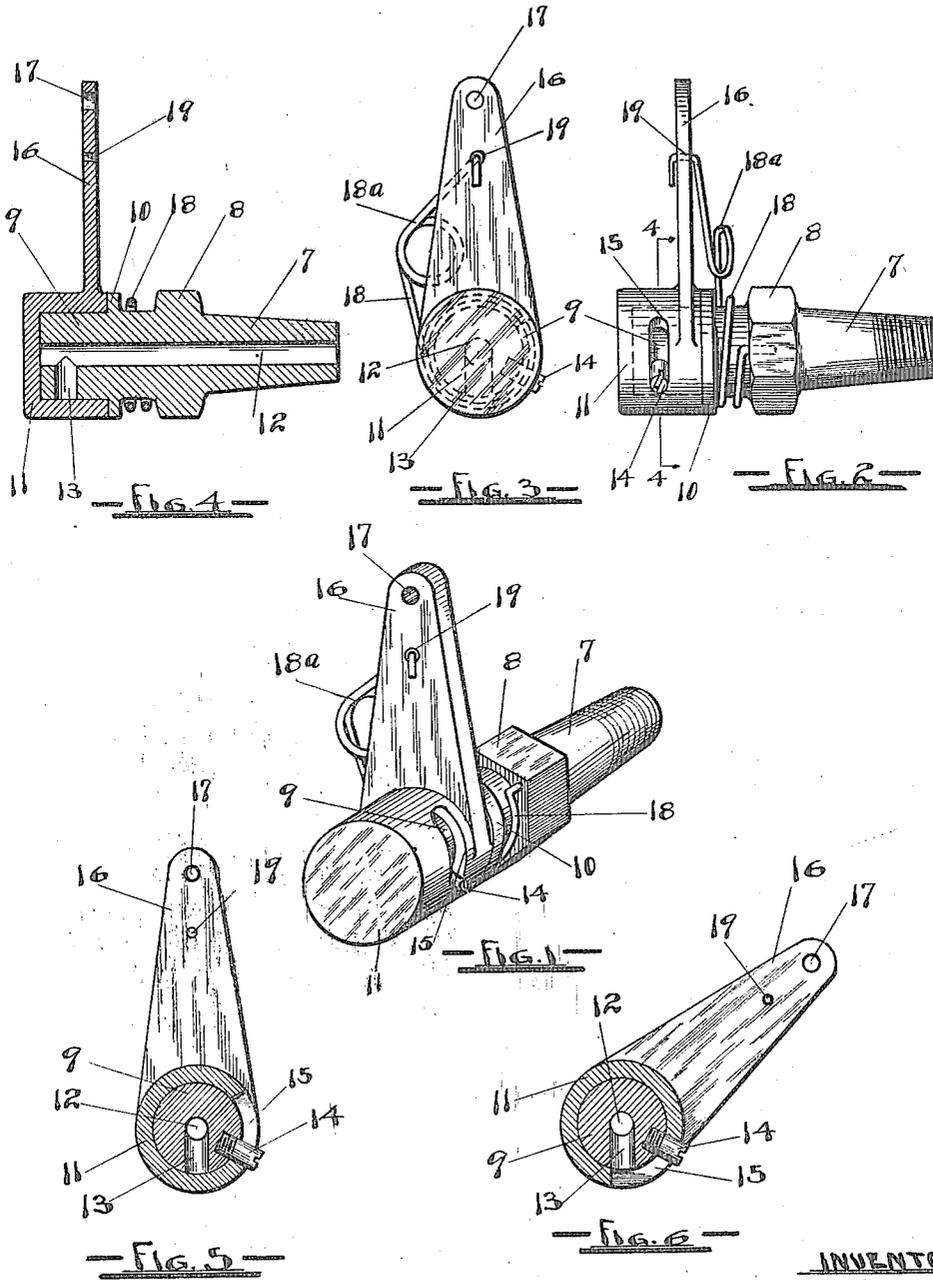
July 1, 1924.

1,499,446

J. C. CODE

COCK

Filed Feb. 23, 1923



INVENTOR  
JOHN C. CODE  
BY C. F. *[Signature]*  
ATTY

Patented July 1, 1924.

1,499,446

# UNITED STATES PATENT OFFICE.

JOHN C. CODE, OF PORTLAND, OREGON.

COCK.

Application filed February 23, 1923. Serial No. 620,832.

*To all whom it may concern:*

Be it known that I, JOHN C. CODE, a citizen of the United States, residing at Portland, county of Multnomah, State of Oregon, have invented certain new and useful Improvements in Cocks, of which the following is a specification.

My invention relates to cocks in general, and particularly to such cocks as are used to determine the level of oil in the crank cases of automobiles, the object being to provide such a cock that will not become clogged with dirt, and the parts of which are so lubricated by the oil that they cannot stick or become hard to operate.

I accomplish this object by means of the construction illustrated in the accompanying drawing, which is a part of this application for Letters Patent, like characters of reference indicating like parts throughout the several views thereof, and in which:

Fig. 1 is a perspective view of my device.

Fig. 2 is a side elevation of my device.

Fig. 3 is an end elevation of the same.

Fig. 4 is a longitudinal sectional elevation of the same.

Fig. 5 is a section upon line 4—4 of Fig. 2.

Fig. 6 is a similar view to Fig. 5, but showing the cock open.

In general my device consists of a cock body attachable to the crank case of the automobile engine, a cap rotatably mounted upon the end of said body, a pin in said body coacting with a slot in said cap, an arm upon said cap, and a spring to retain said cap in such position that it closes the cock.

The cock body is provided with a stem 7 threaded to attach the stem to the crank case of the automobile engine, a wrench receiving portion 8, and a cylindrical portion 9, said cylindrical portion having thereupon a collar 10 spaced apart from the wrench receiving portion 8.

A cap 11 is provided and rotatably mounted upon said cylindrical portion of the body in contact with said collar 10. The body is provided with a longitudinal orifice 12 and a transverse orifice 13 communicating with orifice 12, both orifices being closed by the cap 11, as shown in Fig. 4.

The cap 11 is secured upon the body by means of a pin 14 threaded into the cylindrical portion of said body and coacting with a slot 15 in said cap, said cap being thereby secured upon the body but free to rotate through such an arc as is permitted by

the length of the slot 15. An arm 16 is provided upon said cap and has an orifice 17 therein, whereby said cap may be operated by a rod inserted into said orifice 17.

When the said arm is in vertical position the body orifices 12 and 13 are each closed by the cap, as shown in Figs. 4 and 5. When the cap has been rotated as shown in Fig. 6 the slot 15 registers with the body orifice 13 and opens the latter to the atmosphere, as shown in Fig. 6.

A coil spring is provided to keep the cap in position closing the orifice 13, said spring 18 being mounted upon the cock body in the space between the collar 10 and the wrench receiving portion 8, and having a looped extension 18<sup>a</sup> extending upward along the arm 16, to which arm the spring terminal is secured, conveniently by passing the same through an orifice 19 in said arm and bending the spring end over the arm. That portion of said spring encircling the cock body secures the cap in position covering the orifice 13 and protecting the same from dirt, and the looped spring extension places a force upon said cap in a direction normal to the axis of the cock body and at the point thereof where the orifice 13 opens, thus insuring that the cap will always be in contact with the body where said orifice opens irrespective of any wear of either the cap or of the body.

It is obvious that with this construction the orifice 13 is always closely closed by the cap and protected from dirt, and that the contacting surfaces of the cap and the body are always lubricated from the oil within the orifices 12 and 13, and that any dirt accumulating within the slot 9 will be expelled therefrom by the pin 15 as the cap is rotated upon the body in opening the cock.

My device may be made of any size, and constructed of any materials deemed convenient and suitable for a device of this character, and while I have illustrated and described a form of construction and arrangement of parts found desirable in materializing my invention, I wish to include in this application all mechanical equivalents and substitutes that may fairly be considered to come within the scope and purview of my invention as defined in the appended claims.

Having disclosed my invention so that others may be enabled to construct and to

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use the same, what I claim as new, and desire to secure by Letters Patent is:

1. A cock having a cylindrical portion and an orifice opening upon said cylindrical portion; a cap rotatably mounted upon said cylindrical portion, and having a slot adapted to coact with said orifice to open the latter; a spring adapted to keep said cap in position closing said orifice; an extension upon said spring adapted to produce a force upon said cap in a direction transverse to the longitudinal axis of said cock; and a pin upon said cock projecting through said slot and limiting the angular movement of said cap.

2. A cock having an orifice opening therefrom; a cap upon said cock adapted to close

said orifice, and having a slot adapted to coact with said orifice to open the latter as said cap is moved upon said cock; means to free said slot from accumulated dirt as said cap is moved; and means to force said cap into contact with said cock at the opening point of said orifice.

In witness whereof I claim the foregoing as my own, I hereunto affix my signature in the presence of two witnesses at Portland, county of Multnomah, State of Oregon, this 10th day of Jan. 1923.

JOHN C. CODE.

Witnesses:

L. J. ROBINSON,  
C. F. BLAKE.