

R. HUFF.
DRAIN COCK FOR MOTOR VEHICLE CASES.
APPLICATION FILED APR. 27, 1907.

903,979.

Patented Nov. 17, 1908.

Fig. 1.

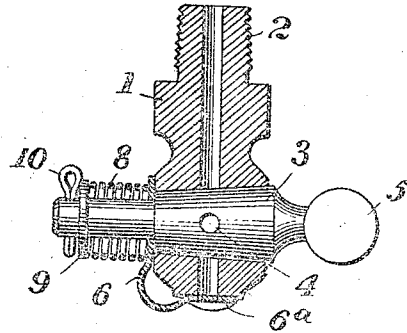


Fig. 2.

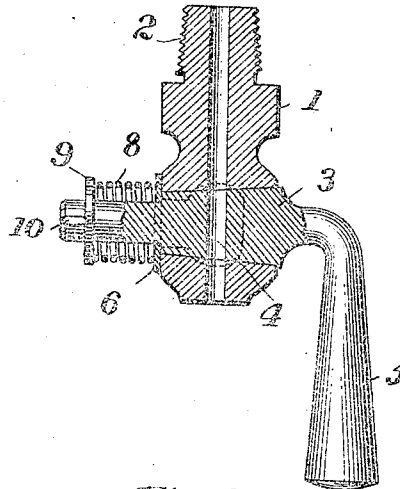
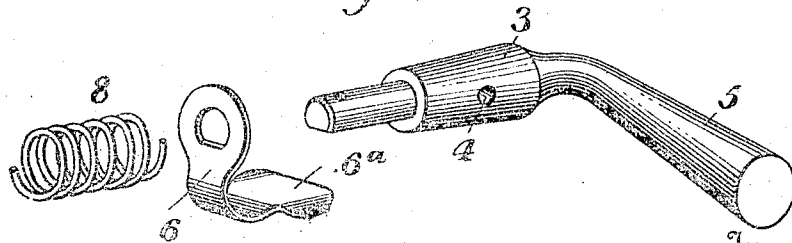


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

RUSSELL HUFF, OF DETROIT, MICHIGAN, ASSIGNOR TO PACKARD MOTOR CAR COMPANY,
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DRAIN-COCK FOR MOTOR-VEHICLE CASES.

No. 903,979.

Specification of Letters Patent.

Patented Nov. 17, 1908.

Application filed April 27, 1907. Serial No. 370,621.

To all whom it may concern:

Be it known that I, RUSSELL HUFF, a citizen of the United States, and resident of Detroit, Wayne county, State of Michigan, have invented certain new and useful Improvements in Drain-Cocks for Motor-Vehicle Cases, of which the following is a specification:

The present invention relates to improvements in drain cocks and particularly to such devices as are employed on motor vehicles.

In a motor vehicle the drain cocks from the crank and gear cases and other parts, are necessarily so located as to be exposed to mud and dust thrown by the wheels when the vehicle is in motion and the outlets thereof quickly become so clogged that it is impossible for fluid to pass until they have been cleaned by a wire or other means.

The object of the present invention is to provide a drain cock the outlet of which will not become thus clogged and which can be opened at any time by simply turning the plug.

The invention is illustrated in the accompanying drawing in which,

Figure 1 is a longitudinal sectional view through a drain cock constructed in accordance with the present invention showing the plug in closed position; Fig. 2 is a similar view, the plug being turned to open the passage through the cock; Fig. 3 illustrates the plug and parts connected therewith detached from the body of the cock.

Referring to the drawings, it will be seen that the cock comprises a body 1 having a suitable passage therethrough and provided at one end with a threaded section 2 by means of which it may be secured in a suitable threaded passage. At an intermediate point in its length the body 1 is suitably enlarged and provided with a transverse passage through which extends a tapered plug 3 having therein a passage 4 which as the plug is turned will aline with the passage through the cock, to permit fluid to flow there-through. When the plug is turned to the position shown in Fig. 1, the passage 4 therein is out of alinement with the passage in the cock, or the plug is in the closed position.

The plug 3 is formed integral with a handle 5 which extends substantially at right angles to the length of the plug, and the smaller end of the plug extends beyond the body 1, being reduced in size, and, as shown, preferably made polygonal in cross section. When the plug is in its closed position the outlet of the passage through the cock is closed by a guard or shield 6 which, as shown, is mounted upon the polygonal shaped section of the plug so as to turn therewith. This shield is held close against the body of the cock by a spring 8 which is compressed between said shield and a washer 9 secured to the projecting portion of the plug by a cotter key 10.

The surface of the body 1 of the cock surrounding the outlet opening therein is made flat and the guard or shield 6 is of such form and so related to the plug that when the latter is in its closed position the plate like portion 6^a of said guard will contact closely with the flat surface on the cock and thus act to hold the plug in its closed position.

As shown the shield or guard 6 is made from a single blank of sheet metal bent into substantially right angled form and having at one end a polygonal aperture conforming in cross section to the shape of the section of the plug which extends therethrough, the free end of said guard being expanded into a plate like section 6^a which as above described is adapted to closely contact with the flat surface about the outlet to the cock and effectually prevent the entrance of anything into the passage of the cock when the plug therein is in its closed position.

Having thus described the invention what is claimed and desired to be secured by Letters-Patent is,

1. The combination with a drain cock for motor-vehicles, having a body and plug, of a guard having one end connected with a portion of the plug and having its free end adapted to extend across the outlet when the plug is in closed position, and a spring surrounding the plug and holding the parts in proper relative position.

2. The combination with a drain cock for motor vehicles, of a guard having one end

connected with a portion of the plug of the
cock and provided at its free end with a
plate-like section adapted to extend across
the outlet when the plug is in closed position,
5 and a spring engaging said guard and hold-
ing it in contact with the body of the plug,
substantially as described.

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

RUSSELL HUFF.

Witnesses:

JNO. D. CURRY,
EDWIN F. RAUSS.