May 14, 1929. E. TOMLINSON 1,712,592

FILLER CAP

Filed April 25, 1927

Fig 1

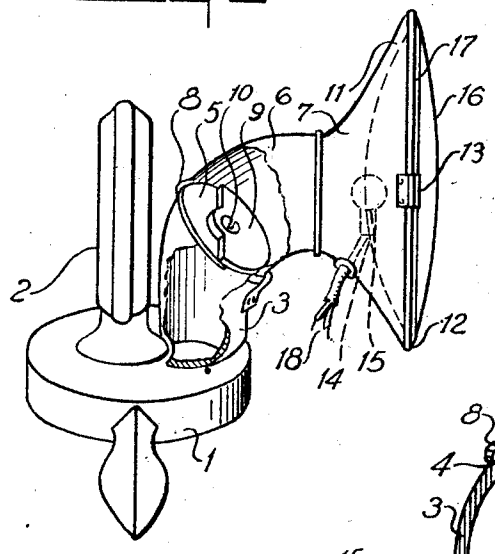


Fig 3

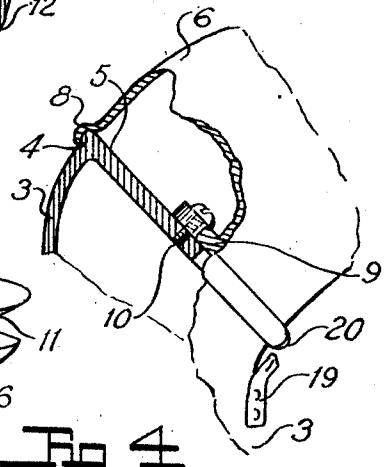


Fig 2

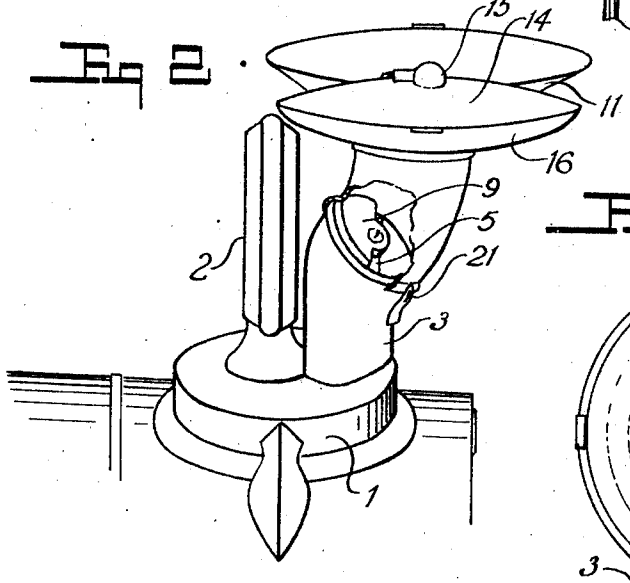
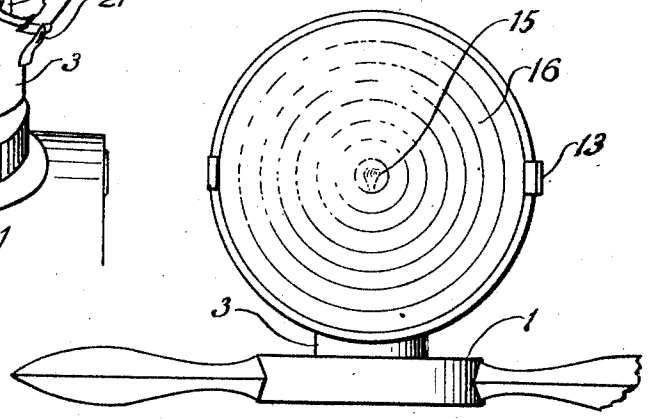


Fig 4



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UNITED STATES PATENT OFFICE.

EUGENE TOMLINSON, OF WICHITA, KANSAS.

FILLER CAP.

Application filed April 25, 1927. Serial No. 186,197.

This invention relates to filler caps for motor vehicles. The primary object is to provide a filler cap with a filler spout normally closed but which can be manipulated so that water can be poured into the radiator without removing the cap.

I provide a filler cap with an upwardly and outwardly extending part on which is rotatably secured a funnel. The funnel is curved so that its flared end may be caused to assume a vertical position for filling and when in this position a normally closed cut-off is open so that water may pass into the radiator. When the funnel is turned to assume a position in which the flared portion is vertical, the major portion of the funnel is substantially horizontal. The cut-off will be effective to close off communication between the funnel and the radiator. The funnel is fastened to the extension by a joint which permits rotative movement of the funnel about the axis of the extension or upstanding tube. In order to prevent dust, dirt and other extraneous matter from accumulating in the funnel, when the car is in motion and thus be carried into the water circulating system, I provide a closure or cap which for convenience may be in the form of a spot-light with the usual reflector, the light source and the lens. The closure is preferably hinged to the edge of the funnel in any appropriate manner, the filament of the lamp receiving energy from a storage battery through conductors in a well understood manner.

The novelty of the invention will be understood by reference to the following description in connection with the accompanying drawing in which:

Fig. 1 is a perspective view of my invention with parts broken away to show the cut-off closed.

Fig. 2 is a similar view showing the funnel in position to communicate with the water circulating system.

Fig. 3 is a view partly in elevation and partly in section of the joint between the tubular extension on the cap and the funnel and

Fig. 4 is a front view of the invention.

The radiator cap 1 may be provided with a motometer 2. Extending from the cap is an upstanding forwardly curved tubular extension 3 having a bead 4 around its edge. The extension 3 has a semi-circular flat-plate 5 constituting one-half of the cut-off. The constricted portion 6 of the funnel 7 has a flange 8 over-lapping the bead and grooved so that the funnel can turn on the bead. The lower end of the funnel carries a flat semi-circular plate 9 pivoted to the plate 5 by the screw 10. When the funnel is turned to the position shown in Fig. 1 the cut-off will be closed, the flared portion 11 of the funnel will be facing forwardly. When the funnel is swung to the position shown in Fig. 2 the cut-off will be open, the flared portion of the funnel will be in a horizontal plane so that water can be poured into the circulating system.

In order to prevent dust, dirt and extraneous matter from accumulating in the funnel I provide a closure 12 hinged to the edge of the funnel as at 13 so that the flared portion will be closed. Under normal conditions this will keep the funnel clean. For convenience, I make the closure in the form of a spot-light with a reflector 14, a lamp 15, a lens 16 and a frame 17. Conductors 18 leading from a battery or other source of electricity will energize the lamp. The member 3 carries a spring latch 19 adapted to engage in a notch 20 in the flange 8, when the funnel is in the position shown in Fig. 1 and notch 21 when the funnel is in the position shown in Fig. 2. Therefore, the operator will know that the cut-off is fully open or fully closed.

It will be seen from the foregoing that the device will enable the operator of a motor vehicle to supply the water circulating system without removing the cap and the radiator may be closed to outside atmosphere by simply turning the funnel. The application of the device not only provides a convenient means for taking care of the water supply, but it affords highly ornamental attachment on the front of the radiator.

What I claim and desire to secure by Letters-Patent is:—

A filler cap for the radiators of motor vehicles having a tubular extension, a rotatable funnel carried by the extension, means co-operating with the extension and the funnel, upon rotation of the funnel to open and close the tubular extension, a lens hinged to the outer end of the funnel forming a closure therefor and a light source in rear of the lens.

In testimony whereof I affix my signature.

EUGENE TOMLINSON.