June 19, 1923. 1,459,384

R. H. WILKINSON

FLUSHING ATTACHMENT FOR AUTOMOBILE RADIATORS

Filed July 24, 1920

FIG. 1.

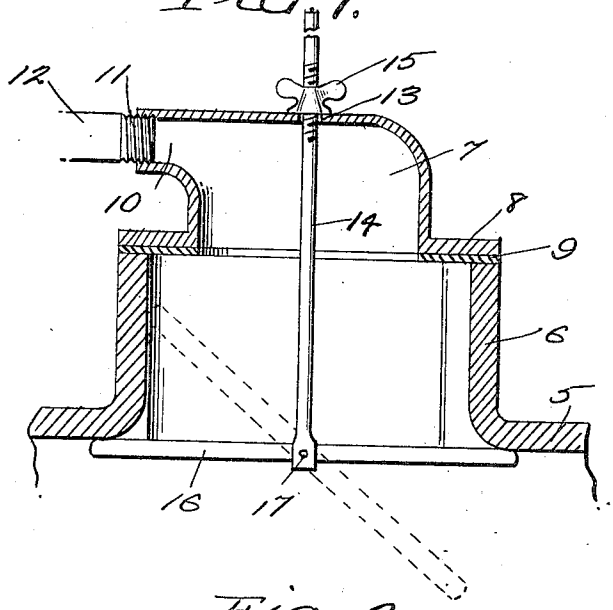


FIG. 2.

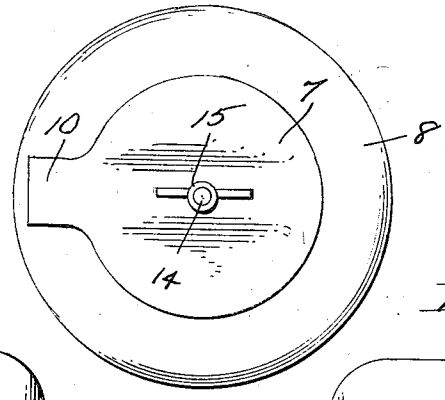


FIG. 3.

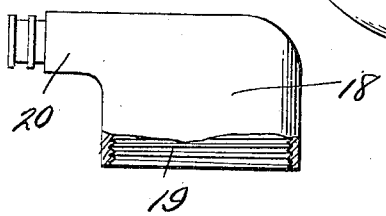
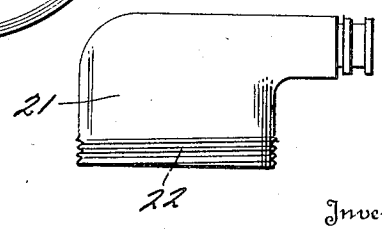


FIG. 4.



Inventor

Robert H. Wilkinson

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UNITED STATES PATENT OFFICE.

ROBERT H. WILKINSON, OF PONCA CITY, OKLAHOMA.

FLUSHING ATTACHMENT FOR AUTOMOBILE RADIATORS.

Application filed July 24, 1920. Serial No. 398,675.

To all whom it may concern:

Be it known that I, ROBERT H. WILKINSON, a citizen of the United States, residing at Ponca City, in the county of Kay and State of Oklahoma, have invented certain new and useful Improvements in a Flushing Attachment for Automobile Radiators, of which the following is a specification.

My invention relates to a coupling or attachment for filling or flushing an automobile radiator.

An important object of the invention is to provide a device of the above mentioned character, which may be applied to the tubular inlet of an automobile radiator, which inlet may vary in diameter.

A further object of the invention is to provide simple and reliable means for engaging interiorly of the radiator, to clamp the coupling upon the tubular inlet thereof.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification, and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a central vertical section through a coupling device embodying my invention,

Figure 2 is a plan view of the same,

Figure 3 is a side elevation, parts broken away, of a second form of device embodying the invention, and,

Figure 4 is a third different form of device embodying the invention.

In the drawings wherein for the purpose of illustration are shown preferred embodiments of my invention, the numeral 5 designates a radiator casing, having upon its top the usual tubular inlet 6.

My coupling device embodies a coupling casing 7, closed at its top and open at the bottom, and provided at the lower open end with a horizontal annular flange 8, carrying a packing ring 9, upon its lower surface. This packing ring contacts with the top of the tubular inlet 6. The coupling casing 7 is provided at its top with a radial tubular extension 10, screw-threaded, for engagement with a screw-threaded coupling 11, carried by a hose or pipe 12, connected with a suitable cource of water, under suitable pressure.

The coupling casing 7 has an opening 13, in its top, to receive a rod 14, extending above the same for a considerable distance. The upper end of this rod is screw-threaded, to receive a winged clamping nut 15, as shown.

The numeral 16 designates a radial bar or rod, pivoted near its center, as shown at 17, to the lower end of the rod 14. The bar 16 has a greater length than the diameter of the tubular inlet surface, and the ends of the bar are therefore adapted to engage beneath the lower end of the tubular inlet, there being large passages upon the opposite sides of the bar.

In Figure 3, I have shown a coupling casing 18, having its upper end closed and its lower end open, and internally threaded, at 19, to engage with the exterior threads of the tubular inlet of the radiator casing. At its top this coupling casing has a radial tubular extension 20, to engage with a hose.

In Figure 4 a coupling casing 21 is provided, identical with the coupling casing 18, but has exterior screw-threads 22, to engage with the interior threads of the tubular inlet of a radiator casing.

In the use of the first form of device, the rod 16 may be angularly arranged, as indicated in dotted lines in Figure 1, and the pivot joint 17 may be sufficiently stiff to prevent the annular displacement of the rod 16, by its own weight. The rod 16 is now passed downwardly through the tubular inlet 6, the flange 8 engaging the tubular inlet. The rod 14 may now be lowered with relation to the coupling casing 7, to bring the upper end of the angularly disposed rod 16 beneath the end of the tubular inlet 6, the rod 14 being angularly adjustable within the opening 13. The upward movement of the rod 14 will now horizontally adjust the rod 16, with its opposite ends engaging beneath the lower end of the tubular inlet 6. The thumb nut 15 is now screwed down upon the rod 14 and clamps the coupling casing 7 in place. By virtue of the wide flange 8, the coupling casing may be applied to tubular inlets of different diameters. It is obvious that the rod 16 may be readily disengaged from beneath the tubular inlet 6, to permit of the removal of the coupling casing 7, by the proper manipulation of the nut 15 and rod 14.

It is to be understood that the forms of my invention herewith shown and described are to be taken as preferred examples of the same, and that various changes in the shape, size, and arrangement of parts may be re-

sorted to without departing from the spirit of my invention, or the scope of the subjoined claim.

Having thus described my invention, I claim:—

In a flushing device, the combination with an automobile radiator having a filling inlet, of a coupling casing to fit over the upper end of the inlet and having a radial extension for connection with a water supply conduit, an up-standing rod extending through an opening in the top of the casing and having its upper portion threaded, a radial bar pivoted to said rod and being of greater length than the diameter of said inlet, said bar being capable of angular adjustment to permit its insertion in the inlet, and a nut carried by the threaded portion of the rod whereby the rod may be drawn upwardly so the ends of said bar will engage beneath the lower end of the inlet clamping the casing to the inlet.

In testimony whereof, I have affixed my signature in the presence of two witnesses.

ROBERT H. WILKINSON.

Witnesses:
PAUL ECKLER,
T. J. CLARK.