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FUNNEL CAP FOR AUTOMOBILE RADIATORS.

APPLICATION FILED JAN. 21, 1918.

1,274,947. Patented Aug. 6, 1918.

FIG. 1

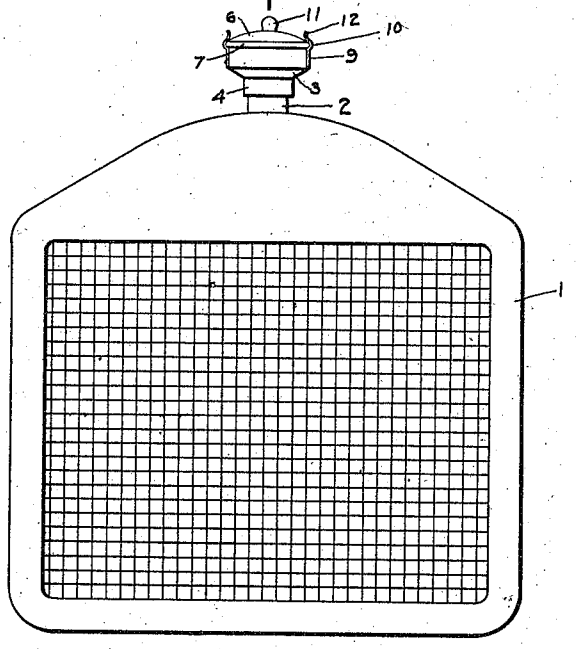


FIG. 2

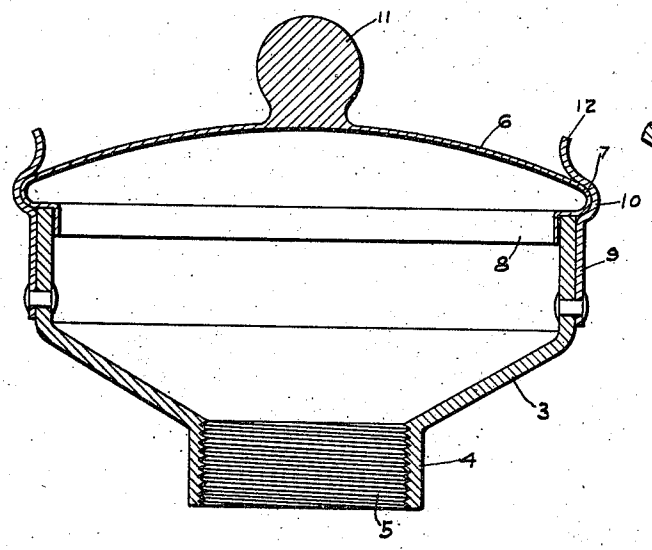
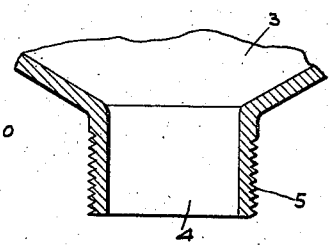


FIG. 3



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FUNNEL-CAP FOR AUTOMOBILE-RADIATORS.

1,274,947. Specification of Letters Patent. Patented Aug. 6, 1918.

Application filed January 21, 1918. Serial No. 213,053.

To all whom it may concern:

Be it known that I, WILLIAM SEITZ, a citizen of the United States, and a resident of Anderson, county of Madison, and State of Indiana, have invented a certain new and useful Funnel-Cap for Automobile-Radiators; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like letters refer to like parts.

This invention relates to a funnel cap for automobile radiators, and the prime object of the invention is the provision of a funnel shaped structure adapted to replace the ordinary cap on the radiator so that water may be readily introduced into the radiator without spilling any of the water.

A further feature of the invention is the provision of a removable cover for the funnel shaped cap, and a further feature of the invention is the provision of means for normally holding the cover in position over the funnel structure.

The full nature of the invention will be understood from the accompanying drawings and the following description and claims:

Figure 1 is a front elevation of a radiator with the funnel cap structure attached thereto. Fig. 2 is a vertical central sectional view through the funnel cap removed from the radiator, and Fig. 3 is a detail sectional view of the lower end of the funnel cap showing the manner of constructing the neck thereof for engagement with an internally threaded opening in the radiator.

Referring to the drawings in which similar reference numerals designate corresponding parts throughout the several views, 1 indicates a radiator which may be constructed in the usual or any preferred manner, shape or size, said radiator having a sleeve 2 extending upwardly from the center thereof through which water or other liquid may be introduced into the radiator.

Heretofore this opening has been closed by means of a cap and it has been necessary to provide a funnel for introducing the liquid into the radiator in order to avoid spilling the liquid, but in the present instance the ordinary cap has been replaced by a funnel shaped cap 3, which is restricted at its lower end and formed into a neck 4, which neck is provided with threads 5 for engagement with the threads of the sleeve 2 and it will be readily understood, as shown in Figs. 2 and 3, the neck may be internally or externally threaded for engagement with externally or internally threaded sleeves.

The upper flared end of the cap 3 is of such diameter that water can be readily poured from a bucket or other vessel without spilling any of the same and to avoid the necessity of unscrewing the cap, as is necessary with the present form of device, the upper end of the cap 3 is closed by means of a cover 6, the peripheral edge of which is curved to form a bead 7, which rests on the upper edge of the cap and projects beyond the periphery thereof, the free edge of the cover 6 terminating in a downwardly extending flange 8 which fits within the open end of the cap 3. Attached to the face of the funnel cap 3 are spring fingers 9, the upper free ends of which are provided with bowed portions 10, which are adapted to interlock with the bead 7 of the cover to securely hold the cover in position on the funnel cap.

In removing the cover the knob 11 is grasped with one hand and outward pressure applied to the upper free end 12 of one of the fingers 9, so that when the bowed portion 10 is clear of the bead 7 the cover can be readily lifted off of the cap. As soon as the proper amount of water has been placed in the radiator the cover is returned to position over the funnel cap, and as soon as the bead has been snapped into engagement with the bowed portion of the fingers 9 the cover will be securely held in position until it is again desired to remove the same.

By this construction it will be readily seen that it can be made in any suitable shape or design and will fit any form or make of radiator and when attached to the radiator the cover can be very quickly removed or secured to the funnel cap, without necessitating the removal of the cap from the radiator. It will likewise be seen that by providing this form of cap, the opening into which the water is poured will be of such diameter as to obviate the possibility of spilling any of the water or splashing the same on to the radiator or parts of the machine or upon the garments of the one who is filling the radiator.

The invention claimed is:

1. The combination with a funnel shaped cap for radiators, and means to attach the

same to a radiator, of a cover for said cap having a peripheral bead of greater diameter than the diameter of the cap, and adapted to rest thereon, a downwardly extending flange on the bead adapted to fit within the cap, and yielding fingers on opposite sides of the cap adapted to engage said bead on the cover to hold the same in position on the cap.

2. The combination with a funnel shaped cap for radiators, of a cover for said cap, said cover having a peripheral bead adapted to extend beyond the edge of the cap, and fingers attached to the cap having bowed portions adapted to fit over said bead and hold the cover in position on the cap, the free ends of said fingers being curved and extended above the cap whereby pressure may be applied thereagainst to release the fingers from the bead.

In witness whereof I have hereunto affixed my signature.

WILLIAM SEITZ.