To all whom it may concern:

Be it known that I, PATRICK H. SCHORMEIER, a citizen of the United States, residing at Hubbard, in the county of Hardin and State of Iowa, have invented a certain new and useful Automobile Radiator-Spout Attachment, of which the following is a specification.

The object of my invention is to provide a radiator spout attachment of simple, durable and comparatively inexpensive construction, whereby it may be marketed at a low cost.

Still a further object is to provide a spout attachment adapted to be secured to an ordinary automobile radiator spout or filling opening, wherein a funnel shaped structure is formed so that the radiator can be conveniently and easily filled.

Still a further object is to provide for the radiator spout, which is in the form of an attachment, a hinged cover member provided with suitable ornamental figures or designs so that a device of great utility is had and at the same time an ornamental device is had for the automobile radiator.

It may be here mentioned that in some types of automobiles, preferably the Ford, the overflow pipe has its upper open end disposed within the filling spout of the radiator itself and when the radiator is being filled, the overflow pipe is also being filled and it is my object to provide in connection with my improved spout, which is funnel shaped, a cover or apron device which will extend over the upper end of the overflow pipe and prevent water entering therein during time of filling of the radiator.

The apron is so arranged as not to interfere with the functioning of the overflow pipe.

With these and other objects in view, my invention consists in the construction, arrangement and combination of the various parts of my device, whereby the objects contemplated are attained as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which:

Figure 1 is a side elevation of my improved radiator spout attachment secured to the ordinary spout of an automobile radiator.

Figure 2 is a front view of the same, parts being broken away and shown in section to better illustrate the construction, especially of the apron which extends over the overflow pipe.

Figure 3 is a central, vertical, sectional view taken on line 3—3 of Figure 2.

Figure 4 is a top, plan view of the radiator spout attachment.

My attachment is designed to coact with a radiator spout 10 which is of the ordinary construction and may be provided with an internally screw threaded portion 11 which ordinarily has the cap or cover secured thereon.

It may be here mentioned that my attachment can be secured to a screw threaded portion on a spout or neck 10 either on the outside thereof or the inside thereof, depending upon the particular type of radiator spout the attachment is to be applied to.

The radiator spout 10 is in communication with an ordinary radiator 12 having an overflow pipe 13 mounted therein with its upper end in position within the spout 10, as clearly shown in Figures 2 and 3 of the drawings.

My improved attachment consists of a body portion 14, which is oval shaped in horizontal section and which is funnel shaped in vertical cross section.

The body portion 14 may be provided with suitable curvatures so as to provide a device of attractive appearance.

The lower end of the body portion 14 is provided with a suitable nipple or neck 15 which is externally screw threaded, as at 16, which cooperate with the screw threads 11 on the spout 10.

In order to form a perfect connection between the spout 10 and an attachment, I place a gasket 17 between the neck 15 and the spout 10.

The upper end of the body portion 14 is provided with an opening of substantial size and has an upwardly extending flange 18 thereon, which cooperates with the cover 19 or cap 19, as will hereinafter be described.

The cap 19 is formed with a pair of ears 20, which are positioned adjacent a pair of ears 21 formed on the body portion 14 on the back side thereof.

Rivets 22 or other suitable pinte rods are extended through the pairs of ears 20 and 21 for forming a complete hinge connection between the cover 19 and the body portion 14 of the attachment.
The cover member 19 is formed with a downturned flange 23, which is positioned along the side of the flange 18. A gasket 24 is placed within the cover 19 and rests upon the upper edge of the flange 18 when the cover is in closed position, thus forming a water tight seal between the hinged portion of the cover 19 and the body portion 14.

In order to retain the hinge cover member 19 in closed position, I form a lug 25 on the cover member 19 which rests substantially above a lug 26 formed on the body portion 14.

The lug 26 is formed in its under side with a curved portion 27 so as to form a hook or receiving notch. A movable latch 28 is connected to the lug 25 by a link connection 29. The link connection 29 straddles the lug 27 so that when the latch 28 is in position with its upper end resting in the notch 27, a closure member will be had which will retain the cover 19 in proper closed position.

The latch 28 can be disengaged from the notch 27 by swinging it outwardly and overcoming the resistance offered by the hook portion on the lug 26 formed by the notch 27.

The cover 19 may be provided with any suitable configurations 30 for adding to the appearance of the attachment.

In order to prevent water from going into the overflow pipe during the time of filling of the radiator, I have provided an apron 31.

The apron 31 can be either formed integral with the body portion 14 or be made as a separate piece and soldered to the inner surface or welded to the inner surface of the neck or nipple 15.

The apron 31 extends over the overflow pipe 13 thus preventing any water entering therein during the filling of the radiator. The overflow pipe 13 is free to operate for carrying any overflow water from the radiator in case of the water in the radiator becoming heated and overflowing. Some changes may be made in the construction and arrangement of the various parts of my invention, without departing from the real spirit and purpose of my invention, and it is my intention to cover by my claims, any modified forms of structure or use of mechanical equivalents, which may be reasonably included within their scope.

I claim as my invention:

1. In combination with an automobile radiator having a filling spout and an overflow pipe therefor, an attachment adapted to be secured to the radiator spout including a body portion, a cover for said body portion and an apron integrally attached to the body portion extending over the overflow pipe.

2. In combination with a radiator having a filling spout and an overflow pipe therefor, an attachment comprising a body portion substantially funnel shape, a neck on said body portion designed to coact with said filling spout, a cover member hinged to said body portion, a latch for holding said cover member in closed position and an apron integrally attached to said neck of said attachment and extending over the end of said overflow pipe as and for the purposes stated.

3. In combination with an automobile radiator having a filling spout and an overflow pipe therefor, an attachment adapted to be secured to the radiator spout including a body portion, a cover for said body portion and an apron forming an extension of the lower edge of said body portion adapted to extend over the overflow spout.

Des Moines, Iowa, July 5, 1924.

PAUL H. SCHNORMEIER.