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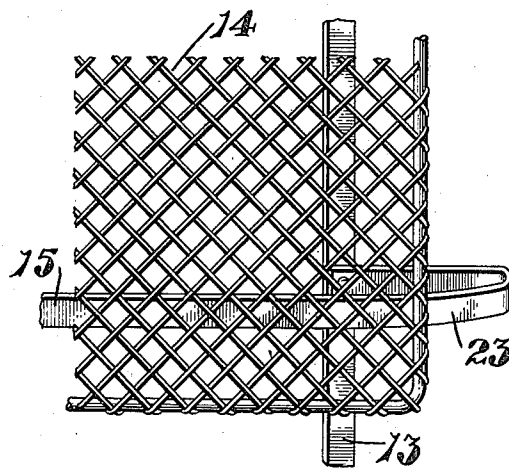
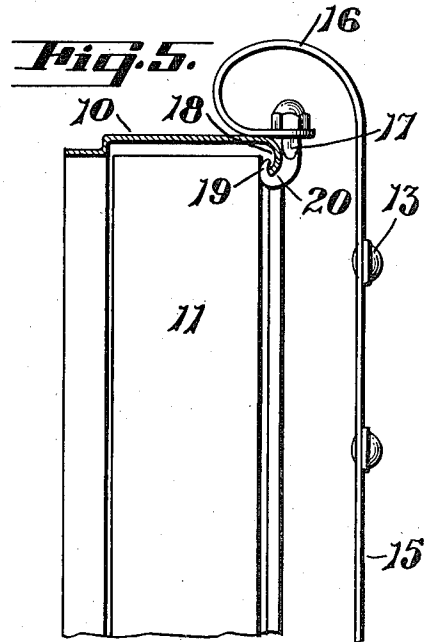
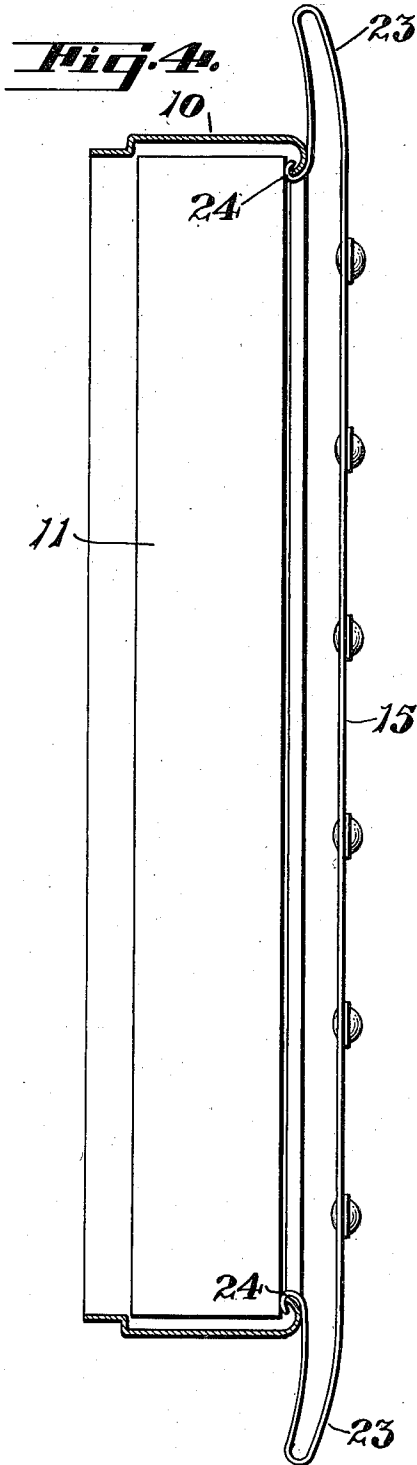
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RESILIENT RADIATOR SHIELD

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2 Sheets-Sheet 2



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# UNITED STATES PATENT OFFICE.

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RESILIENT RADIATOR SHIELD.

Application filed October 15, 1923. Serial No. 668,600.

This invention relates to automobiles, and particularly pertains to a resilient shield for the radiator thereof.

Due to traffic congestion and the increased probability of collisions between automobiles, it is desirable to provide some protecting device for the radiator core of an automobile as this part of the vehicle is usually damaged in collision.

At the present time various shield structures have been made which tend to ward off blows which would otherwise be transmitted directly to the radiator core and its shell, and it is the principal object of the present invention to provide a shield which not only embodies means for warding off blows but which will in a great measure absorb the shock of blows delivered to the radiator shell or its core, thus reducing the possibility of damage to these parts under collision conditions.

The present invention contemplates the use of a screen structure mounted upon suitable supports. The supports, for the screen are made of resilient material and of such a construction as to permit them to yield, under shock, to absorb the force thereof without transmitting it to the shell or core of the radiator.

The invention is illustrated by way of example in the accompanying drawings, in which—

Fig. 1 is a view in front elevation, showing one form of the present invention.

Fig. 2 is a view in side elevation showing the shield structure disclosed in Fig. 1.

Fig. 3 is a view, in plan, showing one form of the supporting members.

Fig. 4 is a view, in horizontal section, through a radiator, showing another form of the present invention.

Fig. 5 is a view, in horizontal section, through a radiator disclosing one manner in which the shield may be detachably secured in position.

Fig. 6 is a fragmentary view in perspective showing another form of resiliently mounted shield.

Referring more particularly to the drawings, 10 indicates the shell of a radiator enclosing a radiator core 11. The shell and core may be of any preferred design and are protected by a shield structure 12. This shield is designed to conform to the shell of the radiator, upon which it is to be

mounted, and at the same time to create a slightly appearance when so carried thereby.

In the form of the invention shown in Figs. 1 to 5, inclusive, the protective portion of the shield comprises a plurality of vertically disposed pickets 13; while in the form of the invention shown in Fig. 6 a reticulated screen 14 is provided. In any event it is desirable to place a sufficient barrier across the front of the radiator core to prevent objects from being forced against the core. The screen or pickets may be mounted upon horizontal bars 14 and 15. These bars, as shown in my copending application filed concurrently herewith, are straight, flat bars which extend across the front of the radiator shell and are fitted with means at their opposite ends for being readily secured to the shell.

In the form of the invention shown in Figs. 1 to 3, inclusive, the bars have semi-circular loops 16 at their terminating ends which extend out beyond the opposite sides of the radiator shell and are then curled around to extend forwardly toward the bar. These forwardly extending portions carry hook bolts 17 which reach over the ledges 18 of the radiator core and have pointed ends 19 which may be forced in between the radiator core 11 and the inturned flange 20 of the shell.

It will thus be evident that the bars 14 and 15, when formed of resilient metal such as spring steel and provided with the loops 16, will furnish a resilient mounting for the protective screen comprising the pickets 13 or the screen 14. Due to this construction the structure will yield under the impact and will tend to move in a direction toward the radiator shell or its core. In some instances it may be desirable to design the pickets so that they will have additional resiliency, and in that case the pickets may be formed with the loops, as indicated at 21 and 22. These loops and the pickets will have the same function as previously described for the supporting bars 14 and 15 in that they may be deflected while absorbing blows which would otherwise be directly transmitted to the core or shell of a radiator with damaging effect.

In the form of the invention shown in Fig. 2, the supporting bars 14 and 15 are formed with elongated loops 23 which will tend to overhang the sides of the radiator

and to an extent protect the sides of the shell from damage. The ends of these loops are hooked, as indicated at 24, and by springing the bars 14 and 15 may be caused to hook in between the core and the shell, thus resiliently securing the shell in place.

In the form of the invention shown in Fig. 6, the bars 14 and 15 carry a screen of reticulated material which will prevent objects from reaching the core of the radiator, while at the same time the resilient nature of the supporting bars will permit sufficient yield to absorb any shock which might be delivered to that part of the car.

In the operation of the present invention the devices may be secured upon the front of a radiator by suitable fastening means and when so positioned will then ward off minor shocks which may be directed toward the core of the radiator. Under extreme collision conditions the bars or looped end pickets will be deflected and will yieldingly resist the force imposed against the shell, and it will also be evident, due to the looped end construction of the mountings that blows may be delivered from any direction without disturbing the fastenings and at all times absorbing the shock.

It will thus be seen that the device here disclosed, while simple in its construction and mode of application, will at the same time provide a desirable protection for automobile radiators and the like.

While I have shown the preferred form of my invention as now known to me, it will be understood that various changes in the combination, construction and arrangement of the parts may be made by those skilled in the art without departing from the spirit of the invention as claimed.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. A radiator shield comprising loop end bars, means for securing the terminating ends of the loops of the bars to the opposite sides of a radiator shell whereby to dispose

the intermediate portions of the bars spaced from the radiator to render the same resilient, and a plurality of shield members disposed at right angles to said bars and supported thereby in a protective position in front of the radiator.

2. A radiator shield comprising horizontally extending loop end bars, the terminating ends of said loops being adapted to connect with the opposite sides of a radiator shell to dispose the intermediate portions of said bars a spaced distance from the exposed front surface of the radiator and to render them resilient, and a plurality of parallel vertically disposed bars secured to the intermediate portions of the horizontal bars, said vertical bars being arranged in front of the horizontal bars and having rearwardly extending looped ends secured to the horizontal bars whereby the entire structure will deflect under impact to absorb shocks.

3. In combination with an auto radiator, of means for protecting the exposed front surface thereof, said means comprising a shield to be positioned in front of the radiator, and members having their ends connected with the radiator and their intermediate portions disposed in front of the radiator and at a spaced distance therefrom to receive and support the shield, the intermediate portions of said members being yieldable under impact to absorb shocks without transmitting them to the radiator.

4. In combination with an auto radiator of means for protecting the exposed front surface thereof, said means comprising a shield substantially conforming in configuration and area to the exposed front surface of the radiator, resilient bars extending across the front surface of the radiator at a spaced distance therefrom and carrying the shield, the ends of said bars being looped to connect the bars to the radiator and to add resiliency to the bars whereby the entire structure will deflect under impact to absorb shocks.

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