F. F. BASSETT.

RADIATOR SHIELD.

APPLICATION FILED FEB. 27, 1911.

1,039,480. Patented Sept. 24, 1912.

Fig. 1

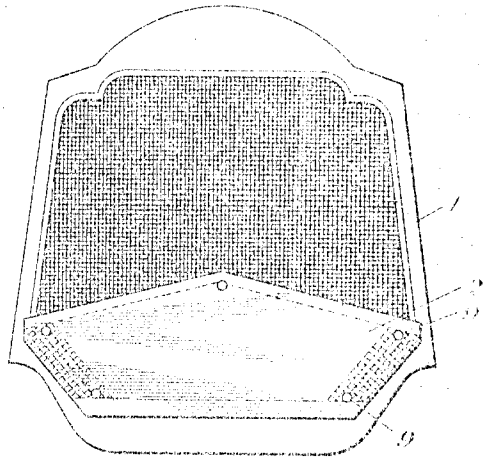


Fig. 2

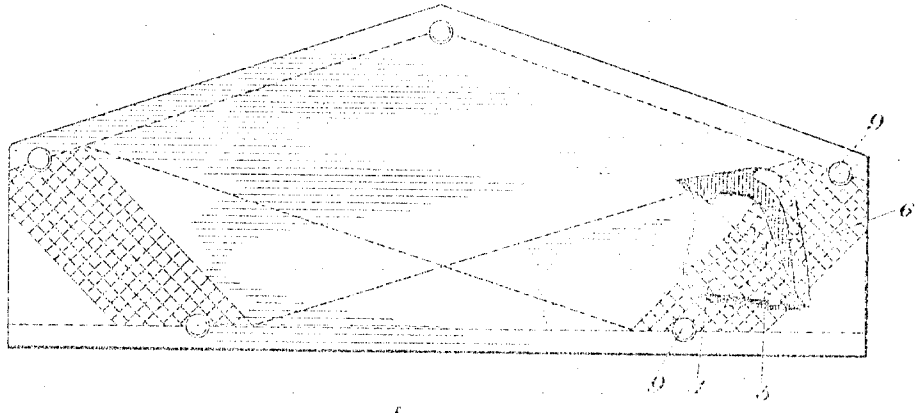


Fig. 3

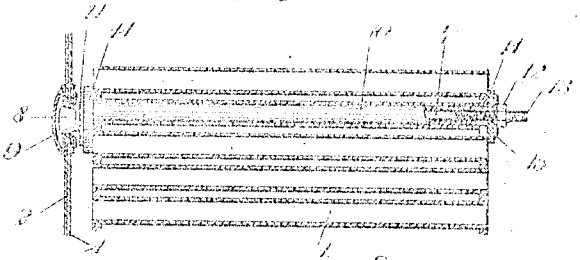
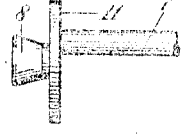


Fig. 4



WITNESSES:

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RADIATOR-SHIELD.

1,039,480. Specification of Letters Patent. Patented Sept. 24, 1912.

Application filed February 27, 1911. Serial No. 611,166.

To all whom it may concern:

Be it known that I, FRANK F. BASSETT, a citizen of the United States, and a resident of Lawrence, in the county of Nassau and State of New York, have invented a new and Improved Radiator-Shield, of which the following is a full, clear, and exact description.

This invention relates to a new and improved shield for radiators, of a type used in automobiles, and is adapted to cover a portion of the radiator and protect it from the cold, so as to prevent an excessive cooling of the water in the radiator, and also to prevent the freezing of the water when the radiator is not in use.

An object of this invention is to provide a radiator shield which can be readily attached to, or detached from, any style of radiator, and which will be simple in construction, inexpensive to manufacture, strong and durable.

A further object of this invention is to provide a radiator shield which is so constructed that it can be cut to fit any number of styles of radiator, and which may be made flexible, so that when not in use, it can be rolled up in a small compass.

These and further objects, together with the construction and combination of parts, will be more fully described hereinafter and particularly set forth in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a front view in elevation, showing the shield attached to a radiator of the honeycomb type; Fig. 2 is a front view in elevation of a complete shield, with parts broken away to show the underlying structure; Fig. 3 is a vertical section showing the means for attaching the flexible portion of the shield to the radiator, and Fig. 4 is a fragmentary detail view showing the eccentric arrangement of the snap heads.

Referring more particularly to the separate parts of this invention as embodied in the form shown in the drawings, 1 indicates an automobile radiator of any suitable type, to which my device is adapted to be attached. In this case, the radiator is shown as honeycombed, but my device is adapted to be attached to any other type of radiator.

The radiator shield includes an apron 2 and supporting members 3, which are adapted to hold the apron to the face of the radiator. The apron 2 may be of any suitable structure and material, such as a sheet of metal, but is preferably formed of one or more layers of fabric 4. In this instance, the body of the apron is shown as comprising two layers of fabric, with the exception of portions at the upper corners, where a reinforcing layer 5 is interposed between the layers 4. The purpose of this reinforcing layer 5 is to permit the corners to be cut off to any desired inclination, so as to conform to the contour of different forms of radiators. The aprons may be made, if desired, exactly to the contour of the particular radiator, but it is desirable, for the purposes of manufacture, to construct them in the manner described, so that they can be cut off to suit the individual radiators. In order that the edges may not fray and rip when cut off in this manner, it is desired to reinforce that portion of the apron adjacent the corners, which are likely to be cut, by a series of rows of stitching 6, which may cross each other at angles, and may be arranged in parallel relation with respect to each other. The layers of fabric in the body portion of the apron may be secured together and reinforced by outlines of stitching in juxtaposition to the body of the apron, and also by diagonal lines of stitching crossing the body of the apron, if desired. The fabric of which this apron is constructed may be of any suitable character, but preferably of a material, such as rubberized cloth, which will prevent the too-ready passage of currents of air.

The supporting members 3 may be of any suitable character, and in this instance are shown in the form of bolts 7, which extend through openings in the radiator, from front to back, and are provided with snap-heads 8 in their front ends, which are adapted to engage snap sockets 9 located at suitable spaced intervals on the apron 2. The bolts 7 may be kept out of contact with the metallic portion of the radiator, so as to prevent injury to the same, by means of a flexible sleeve 10, which in this instance is shown as being made of rubber, but may be made of any other suitable material.

The flange, indicated at 11 of the head 8 and a nut 12, which engages a screw-thread-

ed portion of the bolt 7, are preferably kept out of contact with the radiator at the ends thereof, so as not to injure the same, by means of flexible washers 14 of any suitable material, such as leather. In order that the nut 12 may be screwed up tight without too much friction on the washer interposed between it and the radiator, there is provided a metallic washer 15 between the nut 12 and the leather washer.

It sometimes happens that the openings of the radiator through which the supporting members 3 are passed are so located that the snap-heads 8 would not come in direct opposition to the snap sockets 9. This difficulty is overcome by locating the snap-head 8 eccentrically with respect to the shank of the bolt 7, as will be seen more clearly by reference to Figs. 3 and 4. It will be seen by this arrangement that the position of the snap-head relative to the socket can be adjusted by merely rotating the supporting members 3 so as to bring the snap-head into direct alinement with the socket.

The utility of the device will be readily understood when taken in connection with the above description. The supports 3 are inserted in the radiator with which it is desired to use this shield, and the apron secured thereto by means of the snap catches formed by the sockets 9 and the snap-heads 8. It will be readily seen that the shield forms a perfect cover for the radiator, and will prevent excessive cooling of the water in the same. It will be further seen that when not in use, the device can be rolled up in a very small space, which adds to its utility.

While I have shown one embodiment of my invention, I do not wish to be limited to the specific details thereof, but desire to be protected in various changes, alterations and modifications which may come within the scope of the appended claims.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. The combination with a radiator having a plurality of passageways or openings therethrough, of a shield for said radiator formed with socket members, and a plurality of supporting members extending into said openings or passageways and detachably secured to said radiator, each of said supporting members being formed with a stud fitting into said socket members for detachably securing said shield to the supporting members so as to occupy a position in front of said radiator.

2. In a radiator shield, the combination with a supporting member having a catch thereon, of an apron engaging said catch, said supporting member comprising a bolt adapted to extend through a radiator from front to back thereof and having a flange at the front thereof, a nut on said bolt, a flexible washer interposed between said flange and said radiator, a flexible washer interposed between said nut and said radiator, and a soft sleeve interposed between said bolt and said radiator.

3. In a radiator shield, the combination with one or more supporting members adapted to engage a radiator and comprising bolts extending through the radiator having snap-heads eccentrically located with respect to the shank of the bolt and means engaging each of the bolts and the radiator for clamping the supporting members to the radiator, of a shield having snap sockets thereon adapted to engage said snap-heads.

4. The combination with a radiator having a plurality of openings or passages therethrough, of a shield for said radiator, and one or more supporting members extending into said openings or passages, for securing said shield in position on said radiator, said supporting members having eccentrically-located catches, said shield having means thereon adapted to engage said catches, to secure said shield to said supporting members and said radiator, said catches being eccentrically located so as to properly engage said means by allowing for varying distances between said passages or openings.

5. The combination with a radiator having a plurality of openings or passages extending therethrough, of a shield for said radiator, one or more supporting members extending through said openings or passages, for securing said shield in position on said radiator, means for securing said supporting members to said radiator, and a flexible member interposed between each of said supporting members and said radiator.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANK F. BASSETT.

Witnesses:
H. WHITING,
PHILIP D. ROLLHAUS.