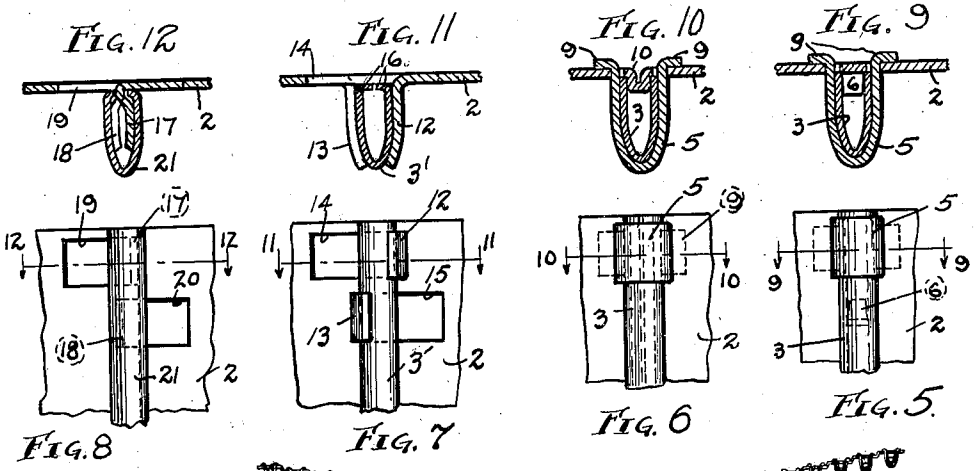
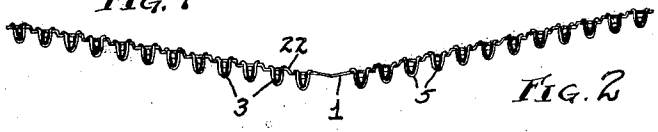
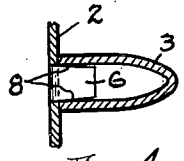
March 5, 1935. L. B. GREEN 1,993,602

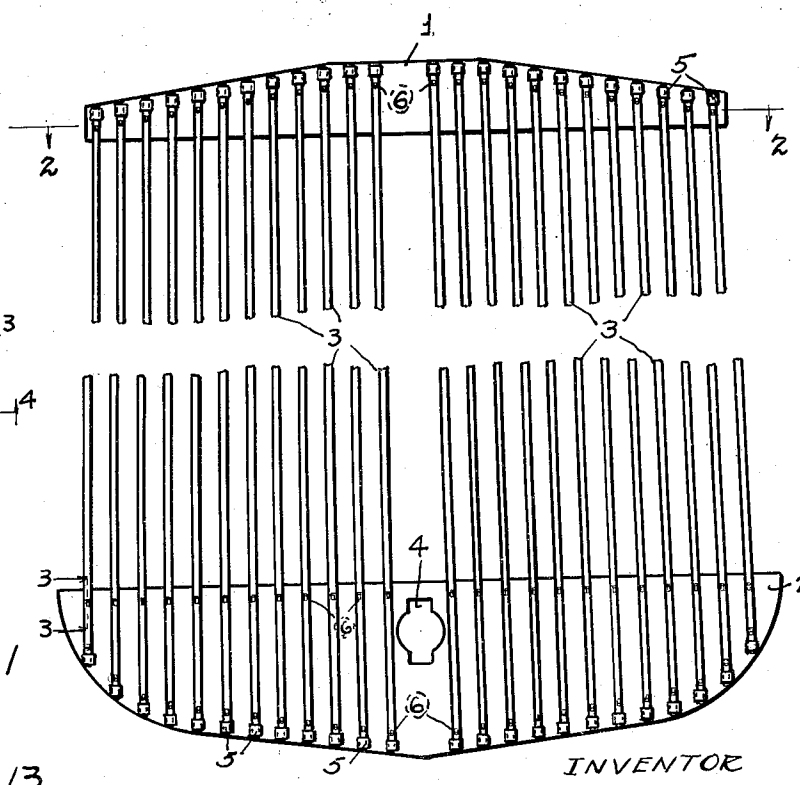
GRILLE FOR AUTOMOBILE RADIATORS AND THE LIKE

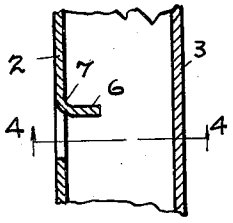
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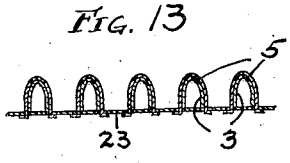












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UNITED STATES PATENT OFFICE

1,993,602

GRILLE FOR AUTOMOBILE RADIATORS AND THE LIKE

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Application April 20, 1931, Serial No. 531,390

4 Claims. (Cl. 293—54)

The present invention relating, as indicated, to grilles for automobile radiators, and the like, pertains more particularly to a simplified and economical form of construction for that particular type of grille which is adapted to be inserted between the radiator shell and core and to serve both as a protective and ornamental attachment.

One of the objects of my invention is to provide a form of construction which may be quickly and cheaply assembled while at the same time possessing the qualities of strength and attractive appearance. Heretofore such grilles have been fabricated in the form of one-piece construction which involved an expensive stamping or casting process. It is a further object of my invention to obviate any such expensive fabrication methods. To the accomplishment of the foregoing and related ends, said invention, then, consists of the means hereinafter fully described and particularly pointed out in the claims.

The annexed drawing and the following description set forth in detail certain mechanism embodying the invention, such disclosed means constituting, however, but one of various mechanical forms in which the principle of the invention may be used.

In said annexed drawing:

Fig. 1 is a front elevational view of the assembled grille being broken through the center portion for the purpose of convenience of illustration; Fig. 2 is a section taken substantially along line 2—2 of Fig. 1; Fig. 3 is a section taken substantially along line 3—3 of Fig. 1; Fig. 4 is a section taken substantially along line 4—4 of Fig. 3; Fig. 5 is a fragmentary view of one form of grille bar binding clamp; Figs. 6, 7 and 8 are alternative forms of binding clamp constructions; Figs. 9, 10, 11 and 12 are sections taken substantially along lines 9—9, 10—10, 11—11 and 12—12 of Figs. 5, 6, 7 and 8, respectively; and Fig. 13 is a fragmentary sectional view of an alternate form of base plate suitable for a straight front radiator.

Referring more particularly to the assembly view shown in Fig. 1, the grille is composed of the upper base plate indicated generally at 1, and the lower base plate 2. The peripheries of the base plates 1 and 2 are substantially in a form which is the same as the contour of the front lateral faces of the radiator shell (not shown). Secured to the faces of the base plates 1 and 2 are the vertically positioned grille bars 3. In the lower base plate 2 there may be provided an opening 4 of suitable form to receive a motor starting crank.

As best shown in Figs. 3, 4 and 5, the grille bars 3 are substantially in the form of a U-shaped channel strip. The binding clamps 5 are adapted to be positioned over the exterior surface of the bars 3 and to extend through suitable apertures in the base plates 1 and 2. The binding clamps 5 are permanently secured to the base plates by means of bending back their end portions 9. A further securing means is provided by the laterally extending tapered lugs 6 which are bent out of the face of the base plates 1 and 2 at the point 7. The tapered sides 8 of the lugs 6 are adapted to engage snugly with the interior surfaces of the grille bars 3. It will thus be seen that the combination of the above described dual fastening elements function to secure the channel bars 3 against both vertical and horizontal movement, as well as to impart maximum rigidity to the complete assembly. In the alternative form of construction of the fastening means shown in Figs. 6 and 10, instead of having the laterally extending lug 6, there may be provided the interior compression element 10 which is adapted to be inserted in an opening in the base plate 2 and to project into the interior of the channel bar 3.

Another alternative form as illustrated in Figs. 7 and 11 is composed of the ears 12 and 13 punched out of the body portions 14 and 15, respectively, of the base plate 2. In this latter form of construction the grille bars 3' may have the converging strip portions 16 in order to present a larger bearing surface against the base plate 2.

Figs. 8 and 12 represent still another alternative form of binding clamp construction in which the ears 17 and 18 punched out of the body portions 19 and 20, respectively, of the base plate 2 are adapted to compressibly bear against the interior surface of the grille bar 21.

In order to accommodate my radiator grille to those types of radiators which have a V-shaped front section, it is necessary to make the base plates 1 and 2 in the form shown in Fig. 2. The perpendicular extension of the grille bars 3 is retained by means of bending the base plates into a series of steps 22.

Fig. 13 is representative of the form of base plate 23 suitable for installation upon straight front radiators.

The grille bars 3 may be frabricated from a continuous strip, then plated or enameled, and

finally cut into suitable lengths as required by the particular design, thus simplifying the process of manufacture and avoiding waste of material.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the mechanism herein disclosed, provided the means stated by any of the following claims or the equivalent of such stated means be employed.

I therefore particularly point out and distinctly claim as my invention:

1. In a grille for automobile radiators and the like, the combination of upper and lower base plate members, a plurality of substantially vertical bar members secured to the outer faces of said base plate members, the vertical bar members being substantially in the form of U-shaped channel bars, laterally extending lugs in the outer faces of said base plate members adapted to engage with the inner surfaces of said U-shaped bar members, and compressible binding means for securing said bar members to said base plate members.

2. In a grille for automobile radiators and the like, the combination of upper and lower base plate members, a plurality of substantially vertical bar members secured to the outer faces of said base plate members, the vertical bar members being substantially in the form of U-shaped channel bars, laterally extending lugs in the outer faces of said base plate members adapted to engage with the inner surfaces of said U-shaped bar members, and laterally extending portions stamped out of the body of said plate members adapted to secure said bar members in position thereon.

3. In a device of the character described, means for securing channel bars to the face of a flat base plate comprising the combination of tapered lugs extending perpendicularly from said plate and adapted to engage with the inner surface of said channel bars, and compressible binding clips adapted to engage with the outer surface of said channel bars and with said base plate.

4. In a device of the character described, means for securing channel bars to the face of a base plate consisting of resilient projections extending perpendicularly from the face of said base plate and adapted to engage with the outer surfaces of said channel bar.

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