

M. B. ARMSTRONG.
 GUARD DEFLECTOR FOR RADIATORS.
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1,042,378.

Patented Oct. 29, 1912.

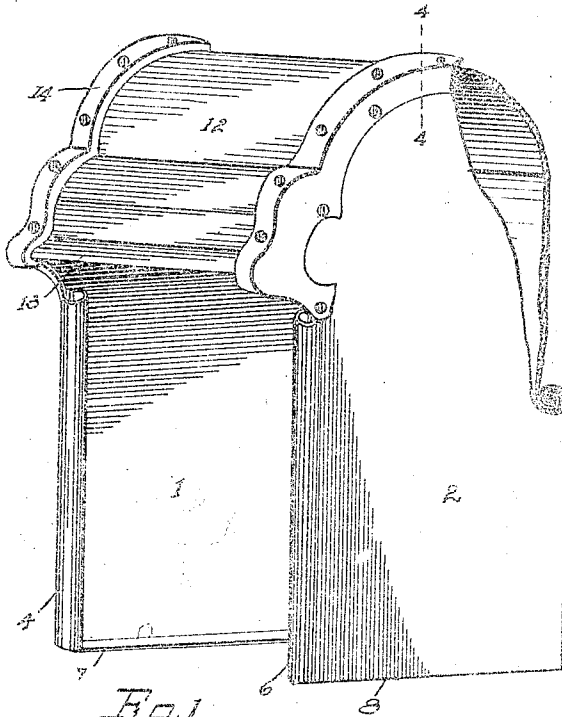


Fig. 1

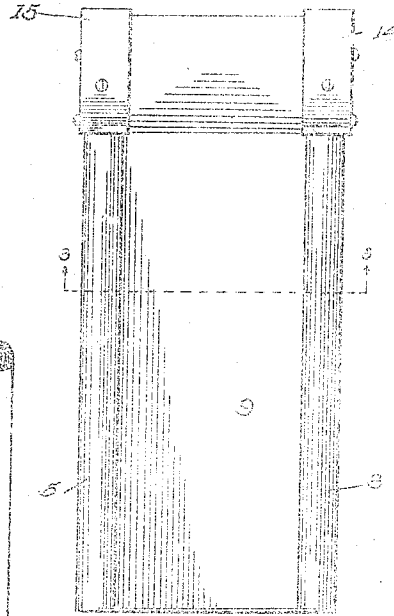


Fig. 2

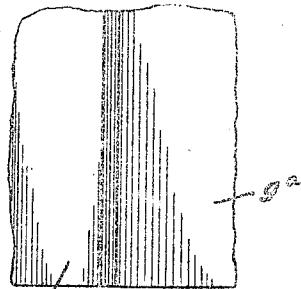


Fig. 5

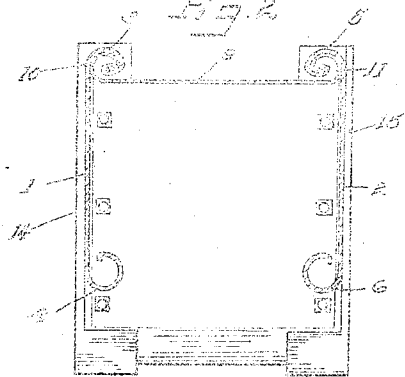


Fig. 3

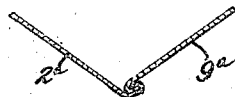


Fig. 6

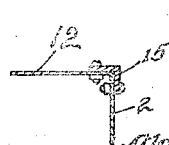


Fig. 4

Witnesses

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GUARD-DEFLECTOR FOR RADIATORS.

1,042,378.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MARTIN B. ARMSTRONG, a citizen of the United States, residing at London, in the county of Madison and State of Ohio, have invented certain new and useful Improvements in Guard-Deflectors for Radiators, of which the following is a specification.

My invention relates to a guard deflector for radiators and is particularly designed to be applied to radiators which are placed in close proximity to walls or surfaces subject to injury, owing to excessive heat or smoke.

In particular the deflector which I have invented is aimed to entirely obviate the existing difficulties and draw-backs to the placing of the radiator in proximate relation to a wall or other delicate surface and it is further aimed to provide a structure of such form that it may be readily applicable to radiators of various sizes and that such applicability may be effected with a minimum difficulty.

The preferred form of my invention is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of my deflector, Fig. 2 is a rear elevation of my device, Fig. 3 is a horizontal section taken on line 3—3 of Fig. 2, Fig. 4 is a sectional detail taken on line 4—4 of Fig. 1, showing a jointure utilized in the preferred embodiment of my invention, Fig. 5 is a detail view of a modified form of joint utilized in the construction of my deflector, and, Fig. 6 is a horizontal section taken through Fig. 5.

In the accompanying drawings, and referring specifically thereto, similar characters of reference designate corresponding parts.

The essential characteristic of my invention is embodied in the provision of two spaced end plates, designated 1 and 2 and shown as being provided at the front and rear vertical edges respectively with substantially circular and inwardly turned flanges 3—4 and 5—6. These end plates 1 and 2 are preferably provided at their lower edges with inwardly turned integral flanges 7 and 8 serving as feet therefor. The upper portions of the end plates 1 and 2 are desirably of curved contour and as shown in the drawings, may be made with a multiple curve.

The connecting medium between the end plates 1 and 2 is shown as being comprised

of a vertical plate 9 having outwardly turned substantially circular flanges 10 and 11 adapted to have a cooperating action with the flanges 3 and 5 of the end plates, whereby the plates may be slid into gripping relation with each other. The other portion of this plate 9 is an integral over-turned portion 12 of a curvature conforming to the upper edges of the said plates 1 and 2. Preferably, the lower, forward extremity of this portion 12 is curled inwardly as at 13 to properly finish the edge. While the vertical juxtaposed edges of the vertical portions are slid into coacting gripping relation, the portion 12 is connected to the upper edges of the end plates 1 and 2 by means of angle irons 14 and 15, desirably of finished material, and having their vertical legs bolted to said vertical sections 1 and 2 and having their horizontal legs bolted in a, preferably, removable manner to the portion 12. Inspection of the structure will show that the end plates may first be slid into gripping relation with the vertical part 9 of the connecting piece and the portion 12 be bolted to the angle irons 14 and 15, to which the end pieces 1 and 2 have already been attached. It will be apparent that the flanges 7 and 8 will assist in rigidly supporting the deflector. The curled portions 4 and 6 add to the finish of the device.

The modification is comprised essentially in the form of joint as shown in Figs. 5 and 6. In this particular form, the side plates 2^a and end plates 9^a are bent over upon themselves in such a manner as to permit of their sliding into gripping relation. In this structure, the bent-over flanges are desirably disposed in parallel relation to the body of their supports, the side and back being designated 2^a and 9^a respectively.

An important feature of my invention, rests in the fact that it is possible and very feasible to utilize the plate 9—12 in varying lengths. In this manner my deflector may be applied to practically any length of radiator and may be dismantled and regulated as to size at will.

What I claim, is—

1. A guard deflector for radiators comprising end plates spaced apart, a hood plate connecting said end plates at their rear and top edges, said plates having a sliding joint between the rear edges of said end plates and said hood.

2. A guard deflector for radiators com-

prising end plates spaced apart, a hood plate connecting said end pieces at their top and rear edges, said plates having a sliding jointure between the edges of the vertical portion of said hood plate and the vertical rear edges of said end plates, and angle irons detachably connecting the upper edges of said end plates and said hood plate.

3. A guard deflector for radiators comprising end plates spaced apart, a hood plate, curled flanges on said end plates, interfitting curled flanges on the vertical edges of said hood plate, and means for connecting the upper edges of said end plates with said hood plate.

4. A guard deflector for radiators comprising end plates, a hood plate, curled flanges on the rear vertical edges of said end plates, interfitting curled flanges on the vertical edges of said hood plate, and angle

irons for detachably connecting the upper edges of said end plates and said hood plate.

5. A guard deflector for radiators comprising side pieces having their forward and rear edges curled, and a spacing sheet comprising a curved hood-like top, and a depending back plate, curled edges on said back complementally formed to slide within the curled edges upon the rear of said side plates, said side plates being curved to conform to the curvature of said hood, and detachable angle irons of a contour to conform to and connect the upper edges of said side plates and said hood.

In testimony whereof I affix my signature in presence of two witnesses.

MARTIN B. ARMSTRONG.

Witnesses:

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