May 24, 1938. D. A. ERICKSON 2,118,344

RADIATOR SCREEN

Filed May 21, 1937

Fig. 1.

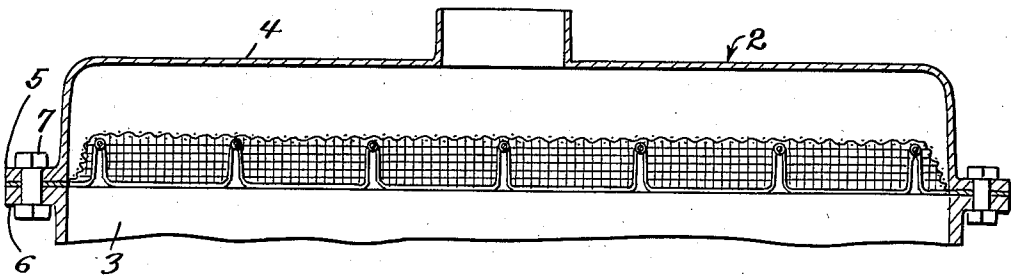
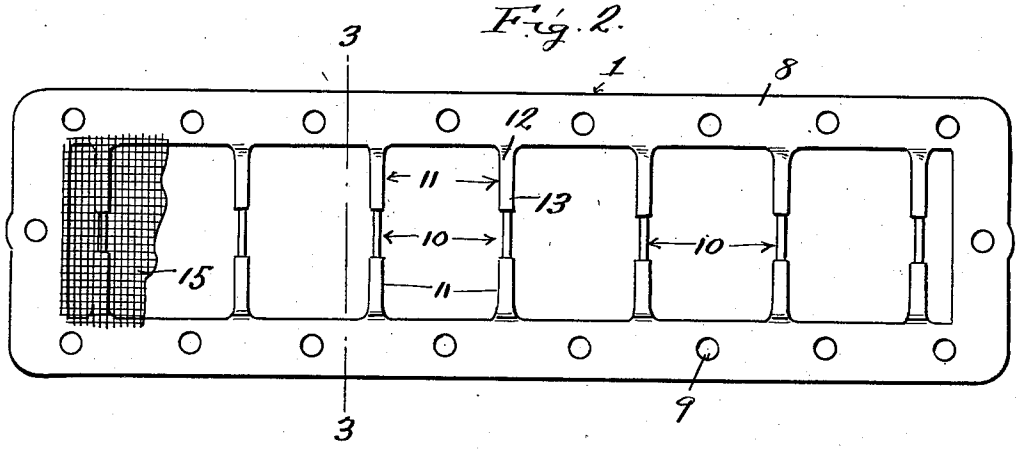


Fig. 2.



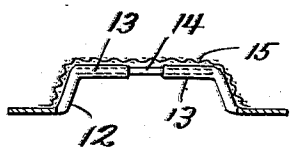


Fig. 3.

Inventor

David A. Erickson

By Clarence A. O'Brien

Hyman Berman

Attorneys

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RADIATOR SCREEN

David A. Erickson, Hamill, S. Dak.

Application May 21, 1937, Serial No. 144,051

1 Claim. (Cl. 210—149)

My invention relates to improvements in filtering screens for use in automobile tractor radiators and the primary object thereof is to provide an inexpensive and efficient device of this character for incorporation in an automobile tractor radiator of the type characterized by a radiator shell and a cap section therefor bolted together.

Another object is to provide a device of the character and for the purpose above set forth which is rust-proof, strong and durable, inexpensive to manufacture, and adapted to be readily cleaned should occasion require.

To the accomplishment of the above, and subordinate objects presently appearing, a preferred embodiment of my invention has been illustrated in the accompanying drawing, set forth in detail in the following description, and defined in the claim appended hereto.

In said drawing:

Figure 1 is a fragmentary view in vertical longitudinal section illustrating a radiator having my improved screen incorporated therein,

Figure 2 is a view in top plan of the improved screen detached, and

Figure 3 is a view in transverse section taken on the line 3—3 of Figure 2.

Referring to the drawing by numerals, my improved filtering screen 1 is shown as incorporated in a well-known type of radiator, represented at 2, and which includes a base shell section 3, a cap section 4, and a pair of laterally extending mating flanges 5 and 6 on said sections, respectively, bolted together as at 7. As will be understood, the shell section 3 contains the usual radiator tubes, not shown, and other parts appurtenant to the radiator structure.

The filtering screen 1 of my invention comprises a rectangular frame 8 of thin sheet metal impervious to rust, for instance, copper, adapted to fit between the flanges 5 and 6 and provided with bolt holes 9 by means of which the frame is secured between said flanges 5 and 6 through the medium of the bolts 7.

Extending transversely of the frame 8 is a plurality of upwardly bowed, or arched screen supports 10 formed in a manner peculiar to my invention and as follows.

The frame 8 is cut, stamped, or died out, from a single sheet of metal to provide pairs of opposed bracket arms 11 which extend from the inner side edges of said frame in equi-distantly spaced relation along the same. The bracket arms 11 are each bent upwardly from the inner edge of the frame, as at 12, and then rolled and bent to provide a tubular free end 13 extending inwardly of the frame. The free ends 13 of each pair of bracket arms are connected together by means of a wire rod 14, of copper, soldered in said ends. Stretched over the described supports 10 is a sheet of copper screening 15 soldered at its edges to the top of the frame around the inner edges thereof. As will be seen by reference to Figures 1 and 2, the supports 10 are arranged so that the screen 15 inclines downwardly therefrom to the frame to form together with the cap section 4 a gutter extending around the bottom of the latter for collecting foreign matter introduced into the radiator with the water and scale from the section 4.

The construction, advantages and use of my invention will, it is believed, be clear from the foregoing description thereof.

Manifestly, the invention as described is susceptible of modifications as regards details thereof, and right is herein reserved to such modifications as fall within the scope of the claim appended hereto.

What I claim is:

A device of the class described comprising a rectangular frame of sheet metal having a plurality of transversely disposed upwardly bowed supports extending from the inner side edges thereof, and a sheet of foraminous material stretched over said supports and secured at its edges to said frame around the inner edges of the latter, said supports each comprising a pair of opposed extensions of angular form arising from the inner side edges of said frame, respectively, and having free ends crimped into tubular form, and a rod having its opposite ends secured in said free ends of said extensions respectively.

DAVID A. ERICKSON.