Aug. 3, 1943. P. P. McLEMORE, JR 2,325,913

TRACTOR FAN GUARD

Filed July 7, 1942

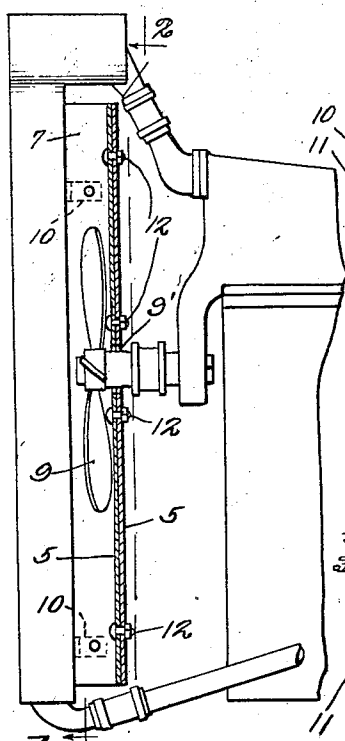


Fig. 1.

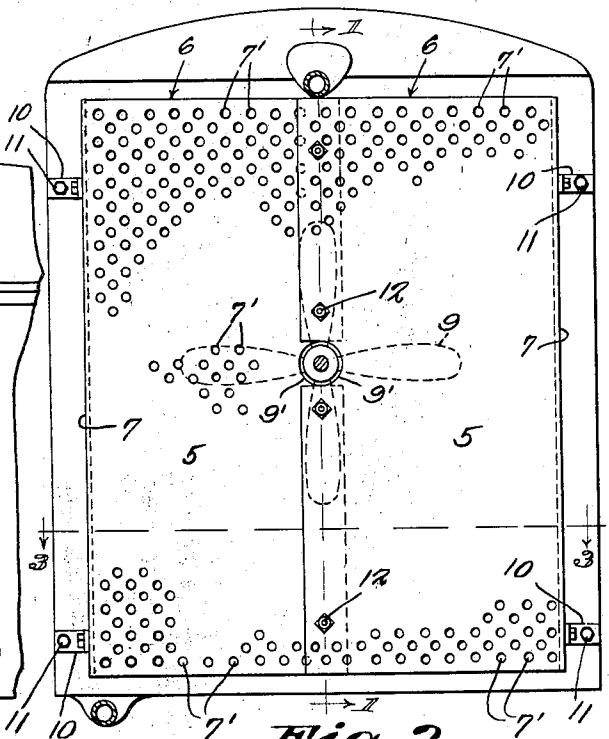


Fig. 2.

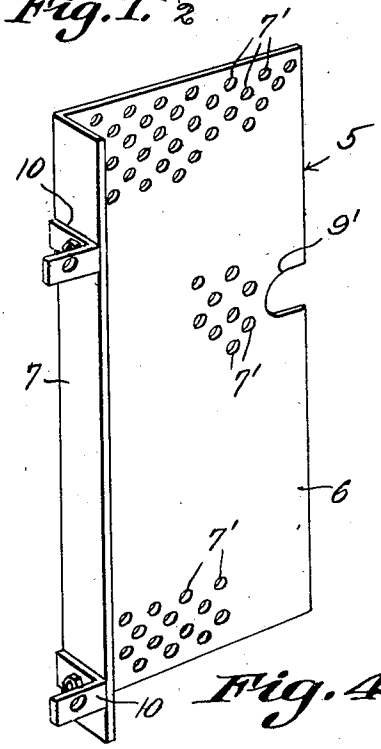


Fig. 4.

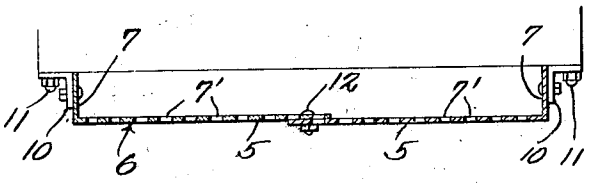


Fig. 3.

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TRACTOR FAN GUARD

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Application July 7, 1942, Serial No. 450,091

1 Claim. (Cl. 230—275)

For the sake of illustration, it might be stated that when tractors are used for rough work in forests, the fan, forming a part of the cooling system, frequently becomes damaged by falling limbs and branches of trees, which usually bend the blades of the fan so that they contact with the radiator coils, frequently damaging the radiator to such an extent that replacement is necessary.

It is therefore the primary object of the invention to provide a guard for use in connection with tractors, to guard the fan against limbs or branches of trees.

An important object of the invention is to provide a protector of this character which may be readily and easily mounted at a point between the fan and front end of the engine, eliminating the necessity of making alterations in the engine construction, to mount the guard.

Another object of the invention is to provide a guard which will guard the fan, and at the same time will not in any way reduce the efficiency of the cooling system.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein described, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:

Figure 1 is a vertical sectional view taken on line 1—1 of Figure 2.

Figure 2 is a sectional view taken on line 2—2 of Figure 1.

Figure 3 is a sectional view taken on line 3—3 of Figure 2.

Figure 4 is a perspective view of one of the sections of the guard.

Referring to the drawing in detail, the guard comprises identical sections indicated by the reference character 5. Each section is formed preferably of sheet metal material and comprises a wide main portion 6 formed with openings 7 arranged throughout the entire surface thereof. One edge of each section is extended at right angles, providing a flange 7, along one of its longitudinal edges. This flange 7 provides the supporting flange for the section, and is of a width to provide ample clearance between the guard and radiator shell, to permit the fan of the cooling system of the tractor, and which is indicated by the reference character 9, to operate therein.

Each of the sections 5 is formed with a cutout portion 9' formed at a point substantially intermediate the upper and lower edges of the section. These cutout portions 9' of the cooperating sections of the guide, are designed to accommodate the fan shaft, and permit the sections of the guard to be readily positioned around the fan shaft on positioning the guard.

The sections 5 of the guard are secured in place, by means of the angle irons 10 which are bolted to the flanges 7 of the sections, near the upper and lower edges of the sections, as clearly shown by Figure 4 of the drawing.

The angle irons 10 are secured to the shell of the radiator, by means of bolts 11 which pass through openings in the angle irons and are held in position by nuts, placed on the threaded ends of the bolts.

When the sections of the guard are positioned, the adjacent inner edges of the sections are overlapped in a manner as shown by Figure 2 of the drawing. It will be seen, that should it be desired to use the guard in connection with a substantially narrow radiator, it is only necessary to move the sections 5 closer together, and place the bolts 12, which are used in securing the inner edges of the sections of the guard together, in openings of the sections which aline, after the sections have been moved to their proper positions.

The upper and lower ends of the compartment formed between the guard and radiator coil, are open, to insure a free circulation of air through the radiator coil, to insure the efficiency of the cooling system of the tractor.

In view of the foregoing detailed disclosure, it is believed that a further description as to the use of the device is unnecessary.

Having thus described the invention, what is claimed is:

A motor vehicle fan guard comprising a housing including a pair of perforated plates, a flange formed along the outer longitudinal side edge of each of the plates, the plates having cut-out portions extending inwardly from the inner central edges thereof, said cutout portions of the plates adapted to align providing a fan shaft opening, when the inner edges of the plates are moved to overlap each other in forming the housing, angle plates secured to the flanges and adapted to be bolted to a radiator frame, holding the guard in spaced relation with the fan housed by the guard, and bolts adapted to extend through openings of the overlapped edges of the plates, adjustably securing the plates together.

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