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J. F. HUDSON

1,832,776

SCREEN

Filed March 16, 1929

FIG. 1.

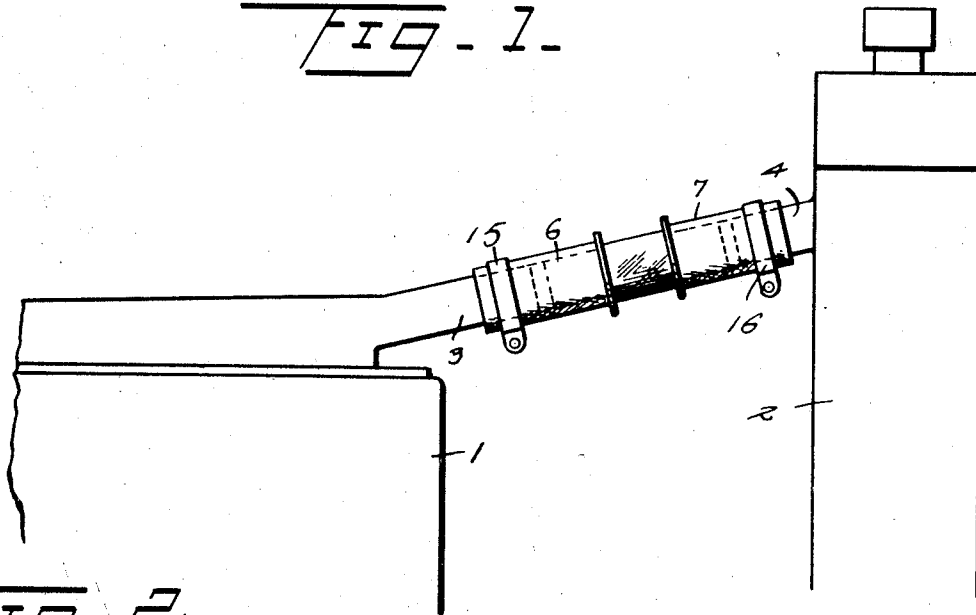


FIG. 2.

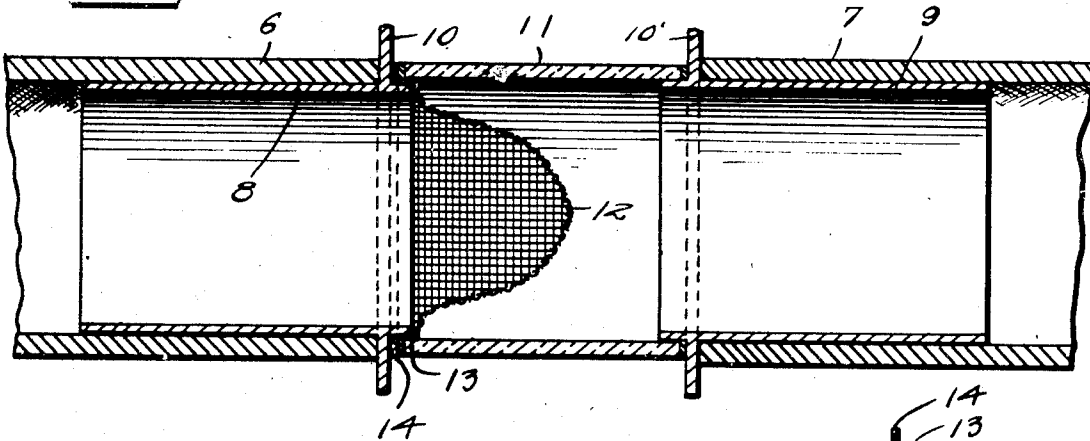


FIG. 3.

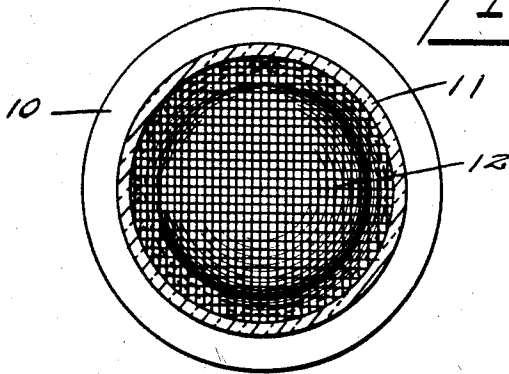
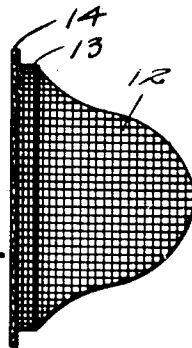


FIG. 4.



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SCREEN

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This invention relates to new and useful improvements in screens and more especially to a device of this kind used for the purpose of screening the water that flows from the cooling jacket of the engine of an automobile or other internal combustion engine into the radiator.

One object of my invention is to provide a screen of the character specified that is visible at all times when in position and may be readily removed and cleaned when required to promote the free passage or circulation of the water therethrough.

With the foregoing and other objects in view that will appear as the nature of my invention is better understood, the same consists in the novel features of construction, combination and arrangement of parts illustrated in the accompanying drawings and more particularly pointed out in the appended claim.

In the accompanying drawings, which are for illustrative purposes only and are therefore not drawn to scale:

Figure 1 is a side elevation, illustrating the application of my invention.

Figure 2 is a longitudinal section, taken through the screen and the hose connection, with the parts represented on an enlarged scale.

Figure 3 is a vertical transverse section, taken on line 3—3 of Figure 2 and Figure 4 is a detail side elevation of the screen per se.

Referring to the drawings for a more particular description of my invention and in which drawings like parts are designated by like reference characters throughout the several views, the numeral 1 designates the engine of an automobile of any ordinary or approved construction, 2 the radiator, 3 the outlet tube or nozzle extending from the cooling jacket of the engine, 4 the inlet tube communicating with the top of the radiator and 5 the hose connection between the outlet and inlet tubes 3 and 4, respectively.

In carrying out my invention, I make the hose connection in two separate corresponding longitudinally spaced sections 6 and 7 and provide metal tubes 8 and 9 which are inserted in the inner ends of the hose sec-

tions. It will be noted that the inner ends of the metal tubes 8 and 9 are provided with annular collars or flanges 10 and 10' which fit against corresponding ends of the hose sections 6 and 7; also that the inner ends of the metal tubes 8 and 9 extend somewhat beyond the inner ends of the hose sections and support the ends of a hollow cylindrical sleeve 11 of glass or other suitable transparent material.

A cone-shaped screen 12 of wire mesh or other suitable reticulated material is mounted in the transparent sleeve 11 and this screen is provided at its base with a circular rim 13 which fits over the inner projecting end of the metal tube 8 and at the extreme inner edge of the rim 13 with an annular flange 14 which fits between the collar or flange 10 and the adjacent end of the transparent sleeve 11, whereby the screen is firmly but removably clamped in position.

The outer ends of the hose sections 6 and 7 are removably secured to the metal tubes 3 and 4 by the clamps 15 and 16, or other equivalent means.

The screen 12 will screen the water that flows from the cooling jacket of the engine via the outlet tube 3 into the radiator. This will keep the radiator free of any dirt or other foreign matter that might cause damage or impairment thereof and will allow a better circulation of the water, thus increasing the efficiency of the cooling system of the engine generally. The screen is visible at all times and in the event it should become choked up and interfere with the free passage or circulation of the water therethrough, may be easily and readily removed and cleaned. Gaskets 17 are arranged between the opposite ends of the hollow transparent sleeve 11 and the annular collars 10 and 10' at the inner ends of the metal tubes 8 and 9 and the pressure on said gaskets is such as to prevent leakage.

From the foregoing description taken in connection with the drawings, it is thought that the construction, operation and advantages of my invention will be readily understood without requiring a more extended explanation.

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

In combination with the cooling jacket of
5 an automobile engine and the radiator, a hose
connection composed of two corresponding
longitudinally spaced sections, metal tubes
extending into the inner ends of the hose sec-
tions, a hollow transparent sleeve fitting over
10 the inner ends of the metal tubes a cone-
shaped screen disposed within the transpar-
ent sleeve, said sleeve provided at its base
with a circular rim which fits over the inner
end of the adjacent metal tube, annular
15 collars formed at the outer ends of said metal
tubes and gaskets between opposite ends of
said hollow transparent sleeve and said col-
lars.

In testimony whereof he affixes his signa-
20 ture.

JOHN F. HUDSON.

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