

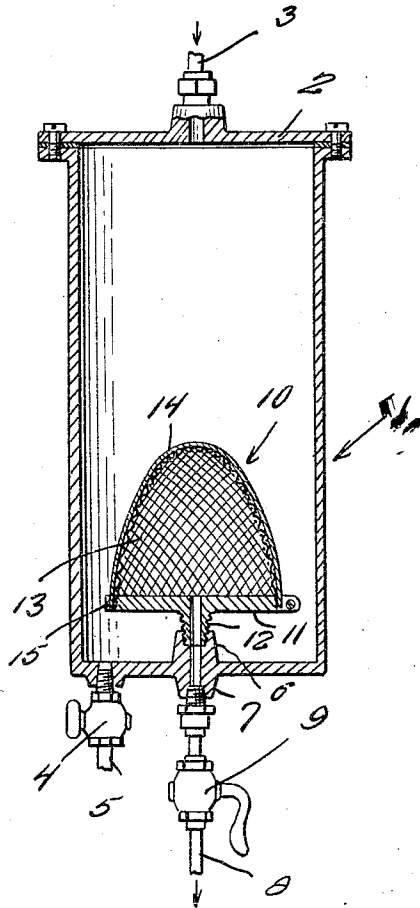
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GASOLINE FILTER

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GASOLINE FILTER.

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This invention relates to an improved gasoline filter which is especially, but not necessarily, designed to be installed in the supply line to an automobile engine at a point between the main tank and the primary vacuum tank.

The principal object of the invention is to generally improve upon devices of this class by providing one of comparative simplicity and durability which can be readily installed in operative position without requiring extensive alteration.

More specifically, I aim to provide a novel filter for the purpose specified which comprises a casing in which the water carried by the gasoline is trapped, there being an improved strainer located in the casing constructed in a manner to intercept the passage of the water but to permit free passage of gasoline.

Other objects and advantages of the invention will become apparent from the following description and drawing.

In the drawing:—

The single figure represents a central vertical sectional view, partly in elevation, of a gasoline filter constructed in accordance with the present invention.

Referring to the drawing in detail, the reference character 1 designates a vertically elongated casing having a removable cover 2 at its top constructed to permit attachment of the gasoline supply pipe 3 thereto. As is understood, the pipe 3 leads from and is connected to the main gasoline tank. At its bottom, the casing is provided with a screw threaded opening into which a drain cock 4 is tapped. If desired, a pipe 5 may be connected to this cock to carry the liquid to an appropriate point of deposit. At the center of its bottom the casing is provided with internal and external bosses 6 and 7 respectively provided with screw threaded sockets. The coupling on one end of a gasoline conducting pipe 8 is connected to the external boss 7 and this pipe, may if desired, include a valve 9. The improved strainer 10 is arranged within the casing and the same comprises an imperforate base plate 11 having a centrally disposed depending screw threaded nipple 12 which is tapped into the socket in the boss 6. A cup shaped wire strainer 13 is fastened about the pe-

riphery of the base plate 11. The wire strainer in the present instance is covered by a chamois skin filter, designated by the numeral 14. This filter is shaped to conform snugly to the shape of the strainer and has its lower edge clamped tightly against the bottom of the wire strainer by a clamping band 15.

Obviously as the gasoline passes from the pipe 3 into the casing 1, it is compelled to pass through the strainer 10 consisting of the chamois skin filter and the woven wire strainer. The chamois skin, as is well known, permits unrestricted passage of the gasoline but sheds water which is trapped in the bottom of the casing to be drained therefrom by the pet cock 4 whenever necessary or desired. Should it be desired to clean the trap or remove the strainer, the cover plate 4 can be taken off.

A careful consideration of the foregoing description in connection with the drawing will undoubtedly suffice to enable persons skilled in the art to which the invention relates to obtain a clear understanding of the same. For this reason a more lengthy description is thought unnecessary.

While I have shown and described the preferred embodiment of the invention it is to be understood that minor changes coming within the field of invention claimed may be resorted to if desired.

Having thus described the invention, what I claim is:—

A gasoline filter comprising a casing which is open at its top, a removable cover plate for said casing, said casing being provided at the center of its bottom with an internal boss formed with a screw threaded socket and a fluid passage leading from said socket, a strainer within said casing, said strainer comprising a plate provided with a screw threaded nipple tapped into said socket, a cap shaped screen having its bottom fitted around the periphery of said plate, a chamois skin covering for said screen fitting snugly over the same, and a clamping band for said screen and chamois skin binding the two against the periphery of said plate, and a drain valve for said casing.

In testimony whereof I affix my signature.
KELLIS S. HENSLEY.