July 7, 1953 C. D. FOSS 2,644,609

VENT PLUG

Filed March 20, 1950

FIG. 1.

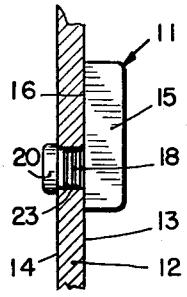


FIG. 2.

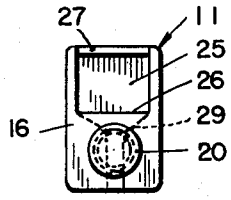


FIG. 3.

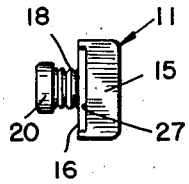


FIG. 4.

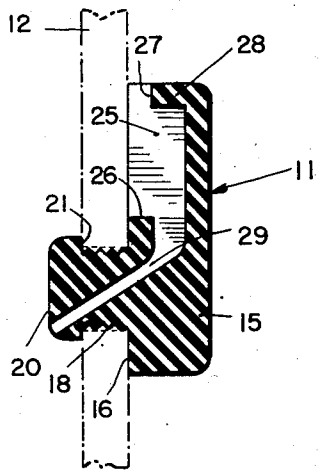
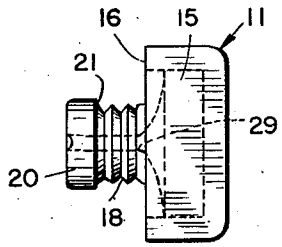


FIG. 5.



INVENTOR

CURTIS D. FOSS

BY

Mason & Graham

ATTORNEYS

Patented July 7, 1953 2,644,609

UNITED STATES PATENT OFFICE

2,644,609

VENT PLUG

Curtis D. Foss, Bell, Calif.

Application March 20, 1950, Serial No. 150,615

2 Claims. (Cl. 220—44)

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This invention has to do generally with vent plugs.

An object of the invention is to provide a novel, simple, self-draining vent plug.

Another object is to provide a self-draining vent plug of resilient material which can be readily mounted in a hole in the wall of a chamber, vessel, or the like.

A further object is to provide a vent plug which is particularly designed to be mounted in a hole in a vertically extending wall in such a manner that the plug will be self-draining from one side of the wall to the other.

A still further object is to provide a vent plug which is particularly designed to prevent the entrance of liquid into a chamber or the like having a wall in which the vent plug is installed.

Another object is to provide a vent plug which can be readily molded of rubber or rubber-like material and which is easy to install.

These and other objects will be apparent from the drawing and the following description thereof.

Referring to the drawing:

Fig. 1 is an elevational view of a vent plug embodying the invention shown mounted in a wall, fragmentarily illustrated;

Fig. 2 is a front elevational view of the plug of Fig. 1;

Fig. 3 is a plan view of the plug of Fig. 1;

Fig. 4 is an enlarged, central sectional elevation of the plug; and

Fig. 5 is a bottom plan view to the scale of Fig. 4.

More particularly describing the invention, reference numeral 11 generally indicates a vent plug embodying the invention which is shown mounted in a wall 12. The wall may be considered as constituting part of a casing of a chamber or it may conceivably be a lid or cover of a railway car journal box. In Fig. 1, numeral 13 indicates the inside surface of the wall and 14, the outer surface.

The plug 11 comprises a body 15 which is preferably formed of resilient material, such as synthetic rubber, for example, and in the drawing the body is shown as plate-like, being substantially rectangular and somewhat more elongated in a vertical direction than laterally. The body provides a wall-engaging flat surface 16 adapted to lie against the surface 13 of the wall 12 when the plug is installed. Projecting from the body is a neck 18 which preferably extends substantially at right angles from the surface 16. The neck 18 terminates in a head or enlarged end

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20 of greater lateral extent than the neck, thereby providing shoulder 21 for engagement with the outer surface 14 of the wall 12. In this connection it may be pointed out that the neck 18 is adapted to be positioned in and extend through a hole or bore 23 in the wall.

The body 15 is provided with an opening or recess 25 which includes a cut-out portion 26 in the surface 16 and a recessed or cut-out portion 27 in the upper end wall 28 of the body. Leading from this opening is a downwardly inclined passage 29 which terminates at the lower end of the head 20.

In the operation of the device it will be apparent that the head 20, being of resilient material, may be forced through the opening 23 in the wall so that the neck 18 lies within the opening and the head 20 beyond the opening to engage the outer surface of the wall. The plug will then be effective to vent fluid from the interior of the chamber of which the wall 12 may be considered as forming a part to the exterior of the wall. It will also be apparent that, due to the configuration of the body and the inclined passage 29, the plug will be self-draining and, any liquid which may accidentally be splashed upon the head 20 will not enter the vent plug to any great degree.

Although the invention has been particularly shown and described, it is contemplated that various changes and modifications may be made without departing from the scope thereof as indicated by the following claims.

I claim:

1. In combination with a substantially vertical wall having a hole therein, a vent plug comprising a body presenting a flat wall-engaging surface disposed against one side of the wall, said body having a cavity in said wall-engaging surface extending through the upper end of the body, a neck projecting from said body beyond said surface substantially perpendicularly thereto and through the hole in the wall, and a head on said neck projecting laterally beyond the neck and engaging the other side of said wall, said plug having an inclined passage extending from the lower portion of said head upwardly through the interior of said neck and said body to the cavity therein.

2. In combination with a substantially vertical wall having a hole therethrough, a vent plug of resilient material comprising a body presenting a flat wall-engaging surface disposed against one side of the wall, a neck projecting from said body beyond said surface substantially at right angles

thereto and through the hole in the wall, and a head on said neck projecting laterally beyond the neck and engaging the other side of said wall, said body, neck and head having an inclined pasage therethrough terminating in an opening at the upper end of said body and in an opening at the lower portion of said head.

CURTIS D. FOSS.

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