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(54) **Fluid extinguisher**

(57) The fluid extinguisher according to the invention includes the container ended in its upper part with the crown in which the release unit (Zs) is mounted containing the release valve (3) along with the pertaining fixing-sealing elements. To the release unit (Zs), the flexible hose (7) placed inside the container is connected, on the end of which the load is fixed - preferably the head (8) with the inlet orifice for extinguishing fluid. The flexible hose (7) is preferably reinforced and strengthened circumferentially.

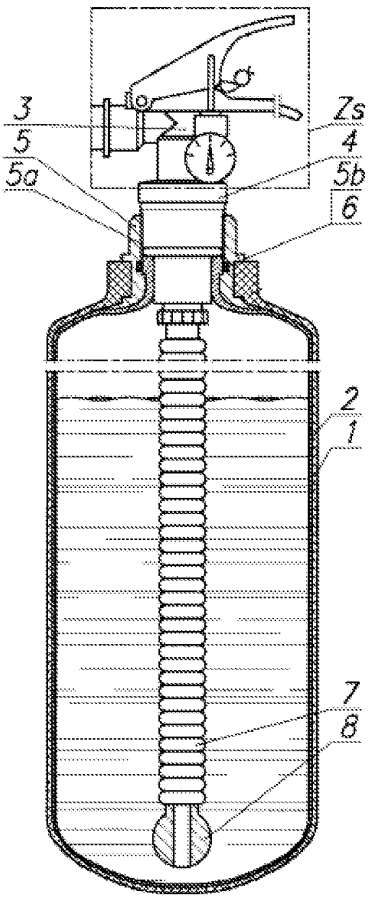

Fig.1

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Description

[0001] The subject-matter of the invention is a fluid extinguisher intended to be used first of all to extinguish fire in automotive vehicles, as well as to extinguish fire on food-processing and chemical plants.

[0002] The extinguisher is known according to the utility pattern No Run 55628 which is composed of a metal container formed from a cylindrical metal shell anchored in the upper part with a crown provided with an orifice situated in a shell axis and into this orifice a connector is mounted where a valve is set with a rigid inlet pipe placed inside the container. The container of the extinguisher according to the patent application P.356742-PCT/DFO1/00091 is formed from two shells including internal shell made of plastic, ended with the connector situated in the lower part of the upper crown of this shell and external shell formed from laminate, which in the upper part is ended with the connector provided with the orifice and with the shell itself considerably thickened in the area of the same orifice. The connector of the internal shell is mounted and sealed in a connecting sleeve of a pressure conduit. Construction of the extinguisher container according to the European patent No EP 0821194B1 includes an inside plastic container and an outside container formed from composite material. The inside container is joined through a pertaining connector with the connecting sleeve and sealed with this sleeve by means of ring-shaped grooves and a conical sleeve connected with a screw joint to the connecting sleeve which, when being screwed in, presses the upper conical part of the connector to the connecting sleeve. In the upper part of this sleeve a gasket is mounted which is closed with the connecting connector of the pressure conduit.

[0003] The fluid extinguisher according to the invention, containing the container ended in its upper part with the crown where a release unit with a valve and pertaining fixing-sealing elements are mounted, is **characterized in that** a flexible hose placed inside the container is connected to the release unit and that on the end of this hose a load is fixed, preferably a head with an inlet orifice, and the elastic hose is preferably reinforced or strengthened circumferentially.

[0004] The advantage of the solution according to the invention is a possibility to continuously extinguish the fire irrespective of vertical, horizontal or inclined positioning of the extinguisher, adjustable location of fluid intake point to the lowest position i.e. to the position where in a given position of the extinguisher, an extinguishing fluid is available what results in a much higher effectiveness of fire extinguishing in inaccessible places where there is a necessity to change position of the extinguisher in order to approach a source of fire, and always possibility to completely empty its content what means improvement of its usability.

[0005] The subject-matter of the invention was presented in the example of making in the figures, where Fig. 1 presents the extinguisher in vertical section, Fig. 2 - the same extinguisher as on Fig.1 but situated upside down and Fig. 3 - the same extinguisher as on Fig. 1 but positioned horizontally.

[0006] The fluid extinguisher presented in the figure consists of the cylindrical container made of the internal shell 2 placed and adjacent to internal surface of the external shell 1. The container is ended in the upper part with the crown, in which the release unit Zs is mounted containing the release valve 3 along with the pertaining fixing-sealing elements including the reducing connector 4 mounted in a two-stage orifice of the profile 5 and in this profile orifice with larger diameter the threaded part 5a and the small passage 5b are cut and in the small passage the gasket 6 is mounted whereas in the threaded part 5a the reducing connector 4 is mounted. To the upper part of this connector the release valve 3 is mounted and to the lower part of the above being inside the container, the flexible hose 7, reinforced and strengthened circumferentially, is mounted. The flexible hose 7 in its end is connected to the head 8 provided with the inlet orifice and this head constitutes a load fixed on the end of the flexible hose 7. The load fixed on the end of the hose 7 forming the head 8 enables continuous extinguishing of fire irrespective of vertical, horizontal or inclined positioning of the extinguisher. The reducing connector 4j as a part of the release unit Zs^ is found in extinguishers with containers of large capacities in the case of reduction from a large diameter of the connector mounted in the upper crown to adjust a size of thread made on a release valve, on the other hand - in extinguishers with containers of smaller capacities used especially in automotive vehicles, the release valve is situated directly in the upper crown of the container excluding a reducing connector.

Claims

1. The fluid extinguisher including the container ended in its upper part with the crown in which the release unit is mounted containing the release valve along with the pertaining fixing-sealing elements **characterized in that** to the release unit (Zs) the flexible hose (7) placed inside the container is connected, on the end of which the load is fixed.

2. The extinguisher according to the claim, **characterized in that** the load fixed on the end of the flexible hose (7) is the head (8) provided with an inlet orifice.

3. The extinguisher according to the claim 1 or 2, **characterized in that** the flexible hose (7) is reinforced.

4. The extinguisher according to the claim 1 or 2, **characterized in that** the flexible hose (7) is strengthened circumferentially.

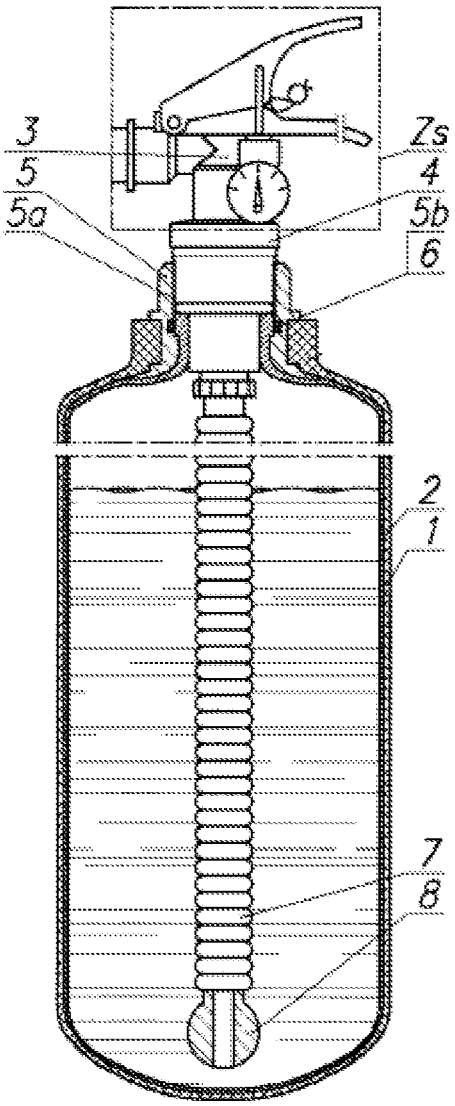

Fig.1

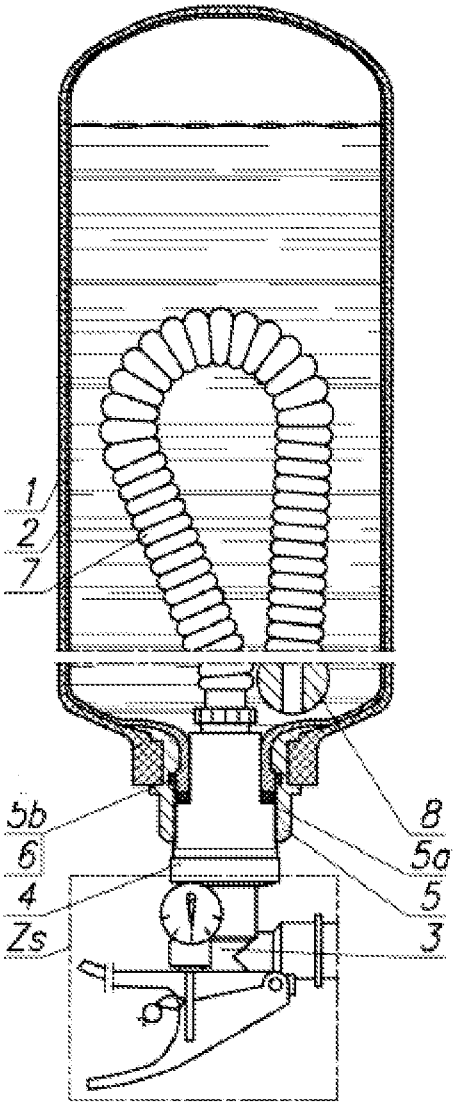

Fig.2

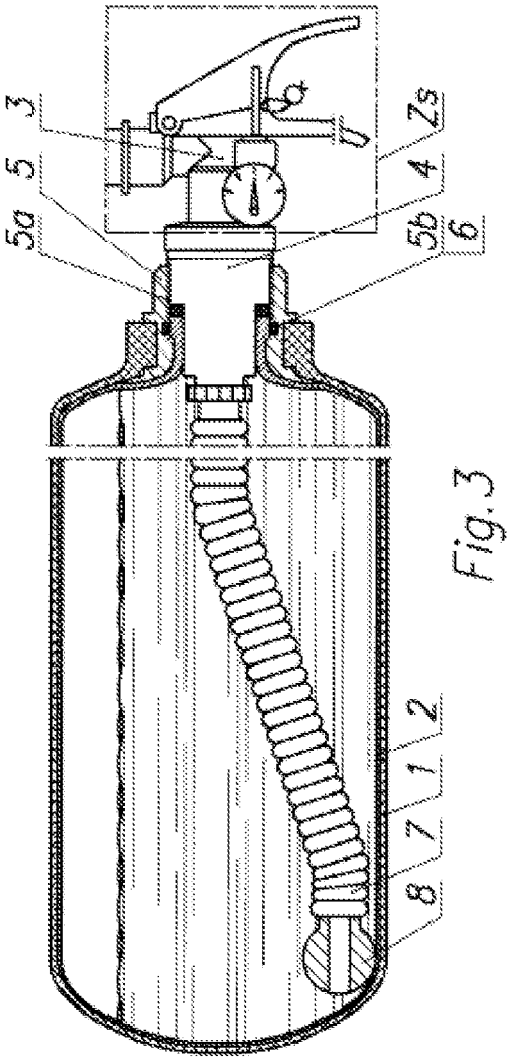

Fig. 3

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- EP 0821194 B1 **[0002]**