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(11)

EP 1 820 542 B1

(12)

EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention
of the grant of the patent:
06.10.2010 Bulletin 2010/40

(51) Int Cl.:
A62C 31/00 (2006.01) **A62C 99/00 (2010.01)**

(21) Application number: **07075098.9**

(22) Date of filing: **05.02.2007**

(54) Spray nozzle for a hire hose

Sprühdüse für einen Feuerwehrschauch

Buse de pulvérisation pour manche à incendie

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI
SK TR**

(30) Priority: **15.02.2006 NL 1031155**

(43) Date of publication of application:
22.08.2007 Bulletin 2007/34

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Description

[0001] The invention relates to a spray nozzle for a fire-hose, comprising a handgrip and a connecting opening for a fire-hose in a first outer end, a spray aperture in the second outer end, a throughfeed channel connecting the connecting opening for the fire-hose and the spray aperture, and a movable valve which can close the throughfeed channel (see for example DE 1 905 355 U).

[0002] Such a spray nozzle for a fire-hose is generally known. Fire-hoses hang in many buildings, rolled up on reels, in for instance corridors and rooms. A problem which occurs here is that fire in a building often results in power failure. This can produce dangerous situations. The invention has for its object to combat these dangers.

[0003] For this purpose at least a part of the outer surface of the spray nozzle is provided with a phosphorescent material. Because a phosphorescent material continues to emit light for a considerable time after the ambient light has disappeared, people in the building can readily identify and find the outer end of the fire-hose in the dark.

[0004] The phosphorescent outer surface is preferably annular, and the phosphorescent outer surface is preferably the outer surface of a phosphorescent ring. It is not therefore necessary to manufacture the whole surface from phosphorescent material.

[0005] The phosphorescent outer surface preferably extends close to the spray aperture, and the phosphorescent outer surface more preferably encircles the spray aperture. It is in this way apparent where the outer end is situated.

[0006] The invention also relates to a fire-hose provided with a spray nozzle.

[0007] The invention will be further elucidated on the basis of an exemplary embodiment shown in figures, in which:

Figure 1 shows a fire-hose provided with a spray nozzle; and

Figure 2 shows the spray nozzle of Figure 1.

[0008] Spray nozzle 1, which according to Figure 1 is mounted on the outer end of a fire-hose 6 on a reel 7, has on a first outer end a connection 2 for fire-hose 6. Connection 2 is connected to internal parts (not shown) of spray nozzle 1 in which is located a water throughfeed channel. A rotatable handgrip 3 is placed over the internal parts of spray nozzle 1. Handgrip 3 is manufactured from a red plastic. Handgrip 3 is provided at the second outer end of the spray nozzle with a white-yellow phosphorescent plastic ring 4. Spray aperture 5 of the water throughfeed channel of the internal parts is situated in the opening of phosphorescent ring 4. By rotating handgrip 3 about its axis a valve in spray aperture 5 is either closed or opened such that the water throughfeed is completely closed or that a water jet or water mist is created as required.

[0009] Ring 4 is for instance manufactured from an epoxy incorporating a phosphorescent pigment. An example of a phosphorescent pigment is Luminova (TM) which is commercially available. More examples of phosphorescent pigments and suitable epoxies are described in US 6,005,024. Ring 4 will be luminescent in the dark if the light in the vicinity of fire-hose 6 fails. Spray nozzle 1 can hereby be readily found in the dark.

[0010] Although the invention is described here on the basis of one exemplary embodiment, the invention is not limited thereto. The scope of the invention is therefore defined solely by the appended claims.

15 Claims

1. Spray nozzle (1) for a fire-hose (6), comprising a handgrip (3) and a connecting opening (2) for a fire-hose (6) in a first outer end, a spray aperture (5) in the second outer end, a throughfeed channel connecting the connecting opening (2) for the fire-hose (6) and the spray aperture (5), and a movable valve which can close the throughfeed channel, characterized in that at least a part (4) of the outer surface of the hand grip (3) is provided with a phosphorescent material.
2. Spray nozzle as claimed in claim 1, wherein the phosphorescent outer surface is annular.
3. Spray nozzle as claimed in claim 2, wherein the phosphorescent outer surface is the outer surface of a phosphorescent ring 4.
35. Spray nozzle as claimed in claim 1, 2 or 3, wherein the phosphorescent outer surface extends close to the spray aperture 5 of the spray nozzle 1.
5. Spray nozzle as claimed in claim 4, wherein the phosphorescent outer surface encircles the spray aperture 5.
6. Fire-hose 6 provided with a spray nozzle 1 as claimed in any of the foregoing claims.

45 Patentansprüche

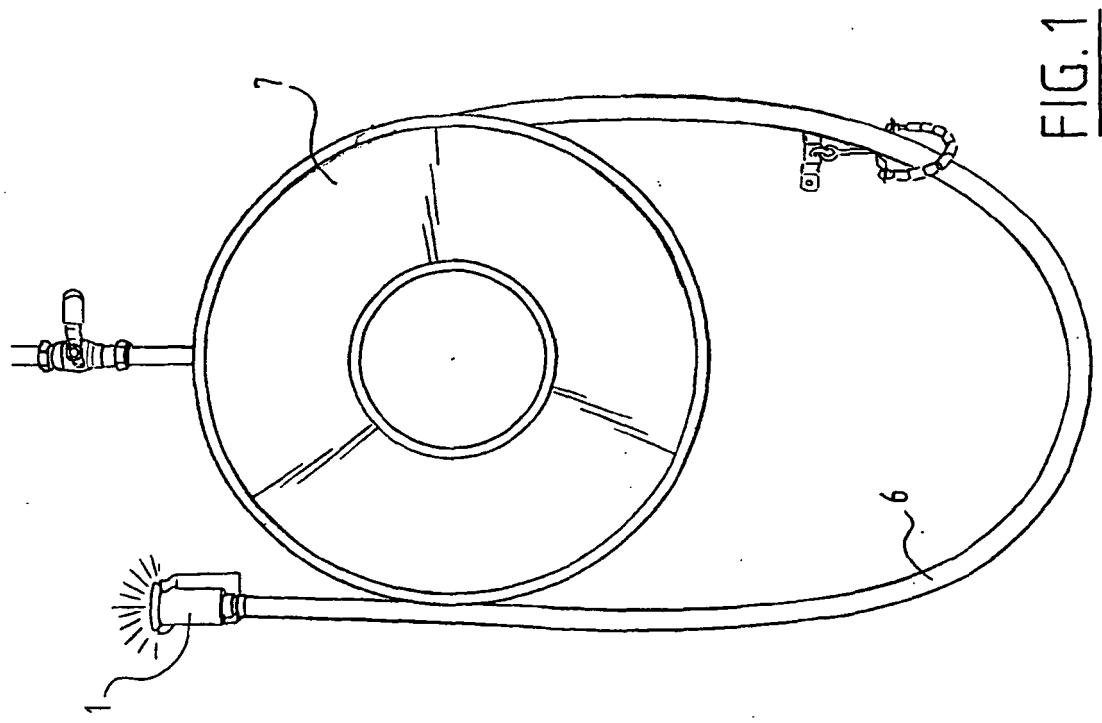
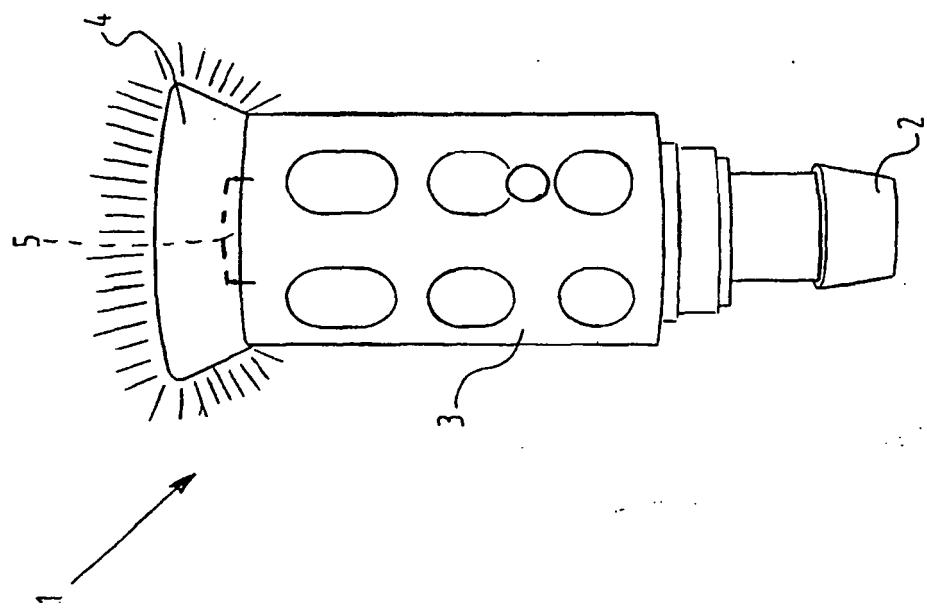
1. Sprühdüse (1) für einen Feuerwehrschauch (6), umfassend einen Griff (3) und eine verbindende Öffnung (2) für einen Feuerwehrschauch (6) in einem ersten äußeren Ende, eine Sprühöffnung (5) in dem zweiten äußeren Ende, einen Durchleitungskanal, der die verbindende Öffnung (2) für den Feuerwehrschauch (6) und die Sprühöffnung (5) verbindet, und ein bewegliches Ventil, das den Durchleitungskanal verschließen kann, dadurch gekennzeichnet, dass zumindest ein Teil (4) der äußeren

- Oberfläche des Handgriffs (3) mit einem phosphoreszierenden Material versehen ist.
2. Sprühdüse wie in dem Anspruch 1 beansprucht, bei der die phosphoreszierende äußere Oberfläche ringförmig ist. 5
3. Sprühdüse wie in dem Anspruch 2 beansprucht, bei der die phosphoreszierende äußere Oberfläche die äußere Oberfläche eines phosphoreszierenden Rings 4 ist. 10
4. Sprühdüse wie in dem Anspruch 1, 2 oder 3 beansprucht, bei der sich die phosphoreszierende äußere Oberfläche in der Nähe der Sprühöffnung 5 der Sprühdüse 1 erstreckt. 15
5. Sprühdüse wie in dem Anspruch 4 beansprucht, bei der die phosphoreszierende äußere Oberfläche die Sprühöffnung 5 umgibt. 20
6. Feuerwehrschnellanschluß 6, der mit einer Sprühdüse 1, wie sie in irgend einem der vorhergehenden Ansprüche beansprucht ist, versehen ist. 25

Revendications

1. Buse de pulvérisation (1) pour un tuyau d'incendie (6), comprenant une poignée (3) et une ouverture de raccordement (2) pour un boyau d'incendie (6) dans une première extrémité externe, une ouverture de pulvérisation (5) dans la seconde extrémité externe, un canal d'alimentation de passage raccordant l'ouverture de raccordement (2) pour le boyau d'incendie (6) et l'ouverture de pulvérisation (5) et une vanne mobile qui peut fermer le canal d'alimentation en continu, **caractérisée en ce qu'au moins une partie (4) de la surface externe de la poignée (3) est dotée d'un matériau phosphorescent.** 30
2. Buse de pulvérisation selon la revendication 1, dans laquelle la surface externe phosphorescente est annulaire. 45
3. Buse de pulvérisation selon la revendication 2, dans laquelle la surface externe phosphorescente est la surface externe d'une bague phosphorescente (4).
4. Buse de pulvérisation selon la revendication 1, 2 ou 3, dans laquelle la surface externe phosphorescente s'étend à proximité de l'ouverture de pulvérisation (5) de la buse de pulvérisation (1). 50
5. Buse de pulvérisation selon la revendication 4, dans laquelle la surface externe phosphorescente encercle l'ouverture de pulvérisation (5). 55

6. Boyau d'incendie (6) prévu avec une buse de pulvérisation (1) selon l'une quelconque des revendications précédentes.



REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- DE 1905355 U [0001]
- US 6005024 A [0009]