(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number: **0 391 050 A1**

(12) EUROPEAN PATENT APPLICATION

(21) Application number: **90103287.0**

(51) Int. Cl.5: **B65D 83/14, B65D 47/26**

(22) Date of filing: **21.02.90**

(30) Priority: **01.04.89 DE 3910517**

(43) Date of publication of application:
10.10.90 Bulletin 90/41

(84) Designated Contracting States:
AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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(54) Foam spray head for aerosol cans.

(57) Foam spray head (1) for aerosol cans, the opening (2) of which is in the form of a funnel, characterized in that an insert (5) provided with lamellae (6) is fitted in the orifice of the funnel, and a rotatable attachment (7) which likewise exhibits lamellae (6) and is congruent with the insert is fixed over the outer rim (4) of the funnel.

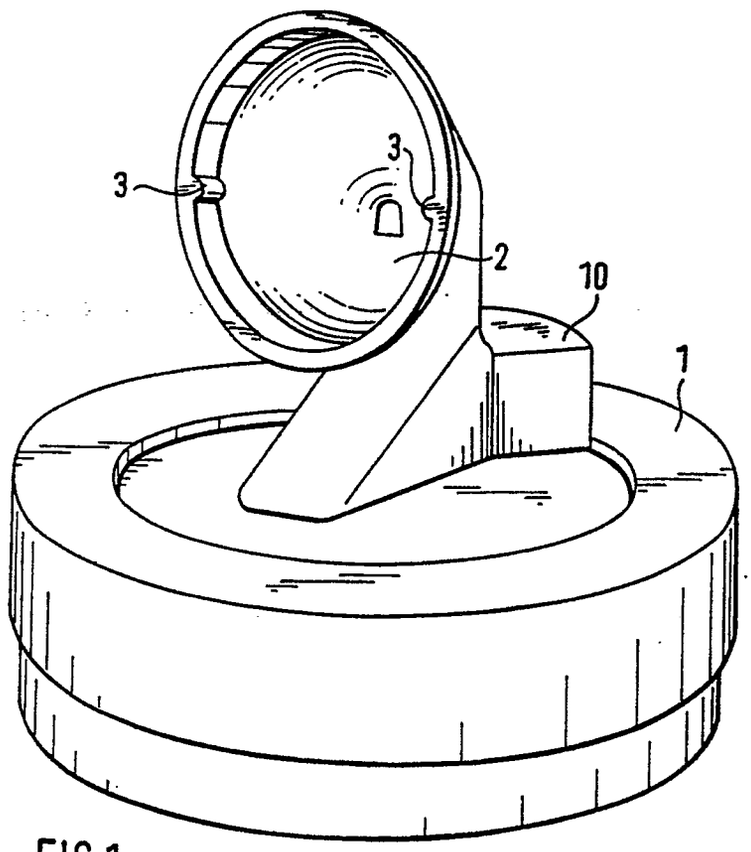


FIG.1

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Foam spray head for aerosol cans

The present invention relates to a new foam spray head for aerosol cans which permits a variation of the delivery rate and furthermore has an aesthetic and hygienic appearance even in the closed condition.

Customary foam spray heads for aerosol cans in general have a rectangular or square cross section which permits the dispensing of the foamed product in the form of a broad strip. Other spray heads are attached perpendicularly in the form of an open tube on the spray can (e.g. FR-A 2,598,101). Both embodiments have the disadvantage that after the foam has been discharged a residue remains in the nozzle, said residue collapsing and thereby giving the product an unsightly, unhygienic appearance.

It is the object of the invention to avoid this disadvantage and furthermore to create a foam spray head which additionally permits the discharge of different quantities of product, i.e. a variation of the delivery rate.

The solution of this object consists in the fact that the spray head is designed as a funnel-shaped fixture, into the opening of which is introduced an insert provided with transversely extending lamellae, and a rotatable attachment which likewise exhibits lamellae and is congruent with this insert is fixed over the outer rim of the funnel.

The mode of operation of this device is exceedingly simple:
in the closed position, the two inserts overlap in such a way that, by virtue of the parallel lamellae, a leak-proof closure of the opening is ensured: by means of rotation, the closure can be opened to any desired position and hence the quantity of the aerosol foam to be delivered determined, up to an opening angle of the lamellae of 90°, square openings associated with the maximum possible delivery rate then being formed.

A funnel-like fixture for a foam spray head is already known from DE-A 3,644,237, but this is used to solve a fundamentally different object and is thus also differently constructed.

Figures 1 to 4 provide an illustration of the foam spray head, according to the invention, for spray cans.

Figure 1 represents the funnel-shaped foam spray head in the initial state; Figure 2 shows the insert to be introduced into the funnel-shaped foam head, and Figure 3 represents the attachment, which is arranged rotatably on the outside of the foam spray head and is congruent with the insert.

Figure 4a shows the foam spray head according to the invention in the closed condition and Figure 4b shows it in the fully opened condition, as seen from the front.

In particular, the foam spray head 1 opening into a funnel opening 2 is secured on a valve disc (not shown) in a conventional manner. In the narrower rim region of the funnel opening 2 are situated projections 3 on which the insert 5 (in accordance with Figure 2) fitting into the funnel opening 2 is secured by means of the recesses. The insert 5 has transversely extending lamellae 6. The attachment 7 illustrated in Figure 3 is secured rotatably on the funnel rim 4 by virtue of gripping the latter and likewise exhibits transversely extending lamellae 6′ which are arranged congruently with respect to the lamellae 6 in such a way that, in the closed condition (of Figure 4a), sealing of the funnel opening 2 occurs. When the attachment 7 is rotated, preferably by means of the ribbing 8 provided on an outer circumference, the funnel opening 2 is correspondingly freed, as shown in Figure 4b.

The valve and hence the discharge of the aerosol foam is actuated by pressing down the push button 10.

Claims

Foam spray head for aerosol cans, the opening of which is in the form of a funnel, characterized in that an insert (5) provided with lamellae (6) is fitted in the orifice (2) of the funnel, and a rotatable attachment (7) which likewise exhibits lamellae (6′) and is congruent with the insert (5) is fixed over the outer rim of the funnel.

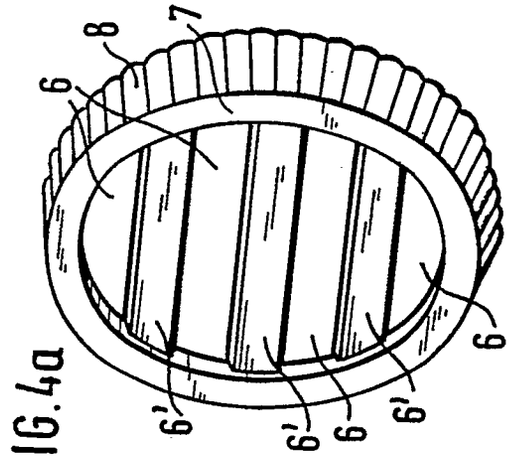


FIG.4a

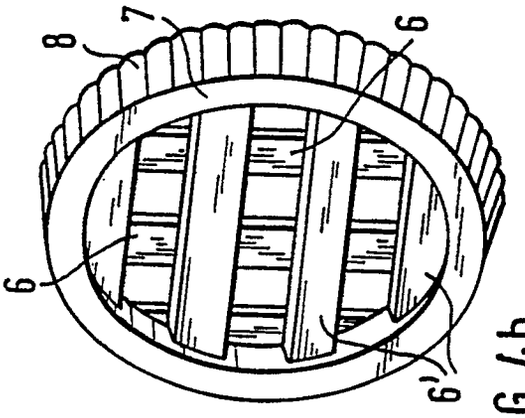


FIG.4b

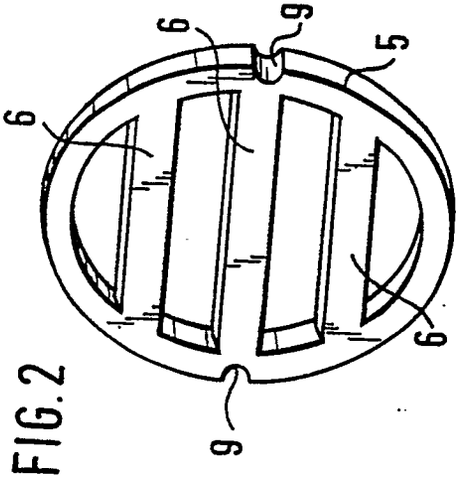


FIG.2

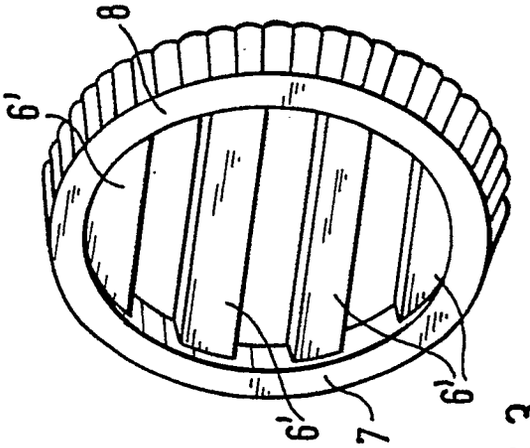


FIG.3

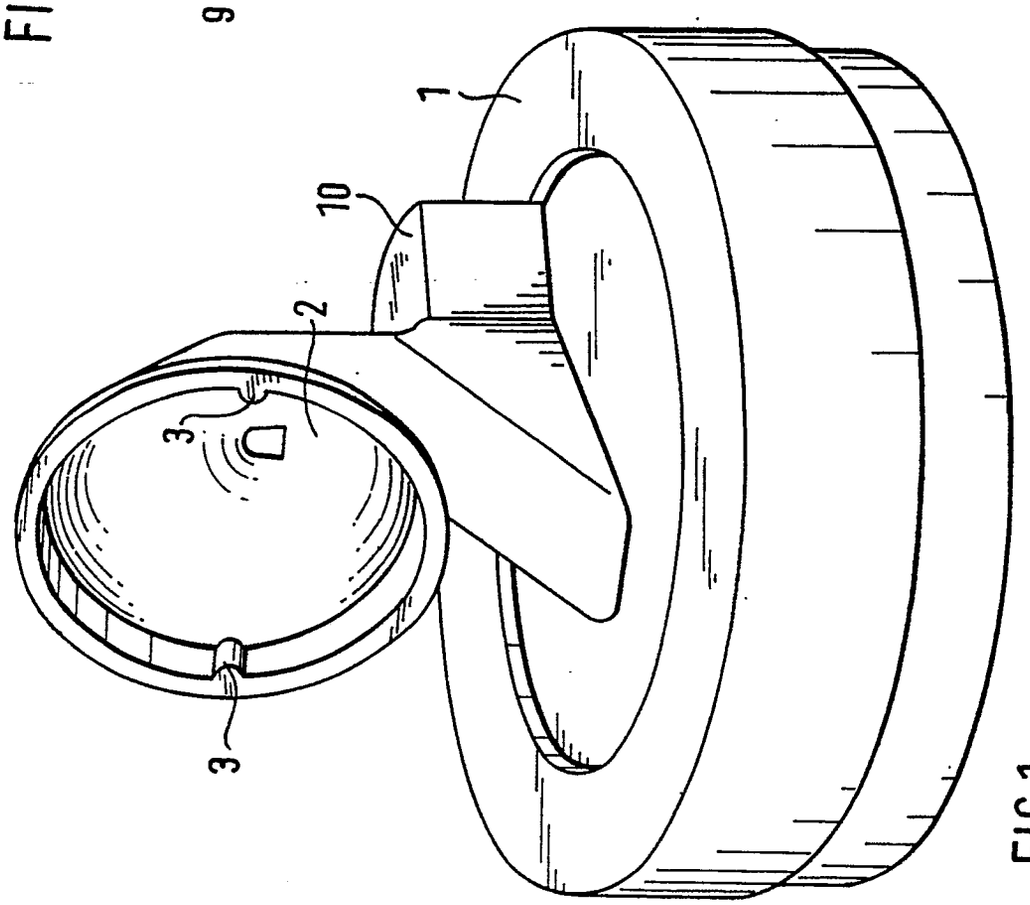


FIG.1

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EUROPEAN SEARCH REPORT

Application Number

EP 90 10 3287

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A,D	GB-A-2 184 789 (L'OREAL) * Figures 1-3; page 2, line 22 - page 3, line 25 *	1	B 65 D 83/14 B 65 D 47/26
A	GB-A-2 188 257 (L'OREAL) * Figure 1; page 3, lines 20-58 *	1	
A	US-A-4 613 063 (D.M. WRIGHT) * Figure 1; column 4, lines 19-30 *	1	

TECHNICAL FIELDS SEARCHED (Int. Cl.5)

B 65 D
A 45 D

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	15-06-1990	PERNICE,C.

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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EPO FORM 1503 03.82 (P0401)