



Europäisches Patentamt
European Patent Office
Office européen des brevets



0 622 311 A3

EUROPEAN PATENT APPLICATION

⁽⁵¹⁾ Int. Cl.⁶: **B65D 83/00**, **B05B 11/00**

②② Date of filing: 29.06.93

⑦ Inventor: **Arai, Ichiro**
8 banchi.

**Ha,
Jichu-machi
Kanazawa-shi,
Ishikawa 920-03 (JP)**
Inventor: **Hirota, Koji, c/o Shinko Kagaku
Kabushiki Kaisha
4, Fujieminami 2-chome
Kanazawa-shi,
Ishikawa 920-03 (JP)**

**Inventor: Hirota, Koji, c/o Shinko Kagaku
Kabushiki Kaisha
4, Fujieminami 2-chome
Kanazawa-shi,
Ishikawa 920-03 (JP)**

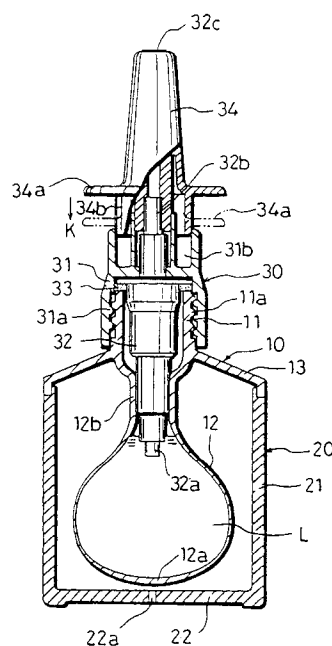
Ishikawa 920-03 (JP)

74 Representative: **Tiedtke, Harro, Dipl.-Ing.**
Patentanwaltsbüro
Tiedtke-Bühling-Kinne & Partner
Bavariaring 4
D-80336 München (DE)

⑤4 Liquid spray bottle.

57) A liquid spray bottle preventing the contamination of a pharmaceutical liquid likely to be caused by entry of outside air and completely spraying all the pharmaceutical liquid. A main body (10) of the spray bottle having a flexible liquid container (12) which can be contracted according to the consumption of the liquid. An outer case (20) covers to protect the container. A spray pump (30) functions to draw the liquid from the container and spray out.

Fig. 1





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 93 11 0385

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)
X	WO-A-91 18798 (RESEAL INTERNATIONAL LIMITED PARTNERSHIP)	1,3,4,6	B65D83/00 B05B11/00
Y	* the whole document *	2,5	

Y	FR-A-2 669 306 (KERPLAS) * abstract; figures 1-8 *	2,5	

X	EP-A-0 444 982 (L'OREAL) * column 4, line 13 - line 33; figures 1,2 *	1,3	

X	EP-A-0 521 278 (MAS) * column 2, line 12 - column 3, line 23; figure *	1,6	

X	US-A-4 457 455 (MESHBERG) * column 5, line 24 - line 62; figures 5,6 *	1,2	

			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
			B65D B05B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 9 March 1995	Examiner Smith, C
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			