

Title (en)  
APPLICATOR FOR MORE OR LESS VISCOUS LIQUID

Publication  
**EP 0316210 B1 19910703 (FR)**

Application  
**EP 88402724 A 19881028**

Priority  
FR 8715439 A 19871106

Abstract (en)  
[origin: EP0316210A1] The applicator comprises a sealed refill (1) containing said liquid and removably arranged in a body (5) having at one of its ends a liquid applicator head (7) removably attached to said end, while means (9) are provided for communication between this applicator head (7) and the inside of the refill (1), and the other end of the body (5) has stopper means (12). <??>The refill (1) is stopped up at the opposite end to the applicator head (7) by a cap (4) made of a pierceable material, and the stopper means (12) of the body (5) carry a hollow needle (22,29) to perforate said cap (4,26) when the refill is inserted into said body (5), this hollow needle (22) communicating with air compressing means (17) worked by hand and carried by said stopper means (12). <??>For use in particular in industrial marker pens. <IMAGE>

IPC 1-7  
**B43K 5/18; B43K 7/02**

IPC 8 full level  
**B05B 11/00** (2006.01); **B43K 1/08** (2006.01); **B43K 7/035** (2006.01)

CPC (source: EP US)  
**B05B 11/0035** (2013.01 - EP US); **B43K 1/086** (2013.01 - EP US); **B43K 7/035** (2013.01 - EP US)

Cited by  
US5628576A; US5738459A

Designated contracting state (EPC)  
BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)  
**FR 2622841 A1 19890512; FR 2622841 B1 19920306**; CA 1309380 C 19921027; DE 3863528 D1 19910808; EP 0316210 A1 19890517; EP 0316210 B1 19910703; ES 2023003 B3 19911216; US 4995751 A 19910226

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**FR 8715439 A 19871106**; CA 581785 A 19881031; DE 3863528 T 19881028; EP 88402724 A 19881028; ES 88402724 T 19881028; US 26318488 A 19881027