Title (en)
APPLICATION DEVICE FOR LIQUID PRODUCT

Title (de)
AUFTRAGSVORRICHTUNG FÜR FLÜSSIGES PRODUKT

Title (fr)
DISPOSITIF APPLICATEUR DE PRODUIT LIQUIDE

Publication
EP 1638855 B1 20091028 (FR)

Application
EP 04767269 A 20040607

Priority
• FR 2004001402 W 20040607
• FR 0306897 A 20030606

Abstract (en)
[origin: US2006140707A1] The invention relates to an application device for a liquid product, contained in a reservoir bottle. The device comprises a lid, closing the opening of the bottle, through which at least one capillary migration channel for the liquid product passes towards a wettable surface on contact therewith. Several similar capillary channels are preferably provided, which can alternatively function as openings for the entry of air through the lid. One of the ends of each channel opens outside the lid. The other end opens in a collector tube for the liquid product, contained in the bottle. The collector tube is embodied to hold a fixed amount of liquid product against gravity by means of capillary action, until the above is drawn off by capillary migration through the lid channels.

IPC 8 full level
B65D 47/18 (2006.01); **A45D 34/04** (2006.01); A45D 34/02 (2006.01); A45D 40/00 (2006.01)

CPC (source: EP KR US)
A45D 34/04 (2013.01 - EP US); **B65D 47/06** (2013.01 - KR); **B65D 47/18** (2013.01 - KR); **B65D 47/40** (2013.01 - KR); **B65D 51/32** (2013.01 - KR); A45D 34/02 (2013.01 - EP US); A45D 40/0087 (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2006140707 A1 20060629; **US 7338228 B2 20080304**; AT E446918 T1 20091115; BR PI0411044 A 20060711; CA 2528369 A1 20041223; CN 1849246 A 20061018; DE 602004023844 D1 20091210; EP 1638855 A2 20060329; EP 1638855 B1 20091028; FR 2855818 A1 20041210; FR 2855818 B1 20060331; JP 2006527138 A 20061130; KR 20060021879 A 20060308; RU 2006101217 A 20060610; WO 2004110900 A2 20041223; WO 2004110900 A3 20050224

DOCDB simple family (application)
US 29504705 A 20051206; AT 04767269 T 20040607; BR PI0411044 A 20040607; CA 2528369 A 20040607; CN 200480015700 A 20040607; DE 602004023844 T 20040607; EP 04767269 A 20040607; FR 0306897 A 20030606; FR 2004001402 W 20040607; JP 2006508359 A 20040607; KR 20057023477 A 20051206; RU 2006101217 A 20040607