

Title (en)

DEVICE FOR SPRAYING A FLUID PRODUCT, SUCH AS A DOUBLE DOSE DISPENSER

Title (de)

VORRICHTUNG ZUM ZERSTÄUBEN EINES FLUIDS, WIE Z.B. EINE ZWEI FLUIDDOSEN ZERSTÄUBENDE VORRICHTUNG

Title (fr)

DISPOSITIF DE PULVERISATION DE PRODUIT FLUIDE, TEL QU'UN BIDOSE

Publication

EP 0969933 B2 20070627 (FR)

Application

EP 98914922 A 19980316

Priority

- FR 9800522 W 19980316
- FR 9703703 A 19970326

Abstract (en)

[origin: FR2761281A1] The invention concerns a device for spraying a fluid product comprising a reservoir (11) containing several doses of product, a cylindrical base (14) housing the reservoir (11), a dispensing member such as a pump, a manually actuated element (20), splitting means (16) co-operating with said actuating element (20) for splitting the contents of the reservoir (11) into at least two doses, and means for accumulating energy (12) co-operating, when the device is actuated, with said manual actuating element (20) for accumulating energy in the user's hand to ensure at each actuation a proper spraying of the entire dose of product. The invention is characterised in that said base (14), said splitting means (16) and said energy accumulating means (12) are integrated in a single-piece unit (10).

IPC 8 full level

B05B 11/00 (2006.01); **B05B 11/02** (2006.01)

CPC (source: EP US)

B05B 11/02 (2013.01 - EP US); **B05B 11/025** (2013.01 - EP US)

Citation (opposition)

Opponent :

US 5427280 A 19950627 - FUCHS KARL-HEINZ [DE]

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

FR 2761281 A1 19981002; FR 2761281 B1 19990521; CN 1095697 C 20021211; CN 1251058 A 20000419; DE 69811644 D1 20030403; DE 69811644 T2 20040129; DE 69811644 T3 20080221; EP 0969933 A1 20000112; EP 0969933 B1 20030226; EP 0969933 B2 20070627; JP 2001520580 A 20011030; JP 4045557 B2 20080213; US 6257457 B1 20010710; WO 9842447 A1 19981001

DOCDB simple family (application)

FR 9703703 A 19970326; CN 98803700 A 19980316; DE 69811644 T 19980316; EP 98914922 A 19980316; FR 9800522 W 19980316; JP 54511798 A 19980316; US 38181199 A 19991026