

Title (en)

Device for spraying a fluid product

Title (de)

Sprühvorrichtung für ein flüssiges Mittel

Title (fr)

Dispositif de pulvérisation d'un produit fluide

Publication

EP 1279607 B1 20060913 (FR)

Application

EP 02291675 A 20020704

Priority

FR 0109932 A 20010725

Abstract (en)

[origin: EP1279607A1] An atomizer comprises: (1) reservoir (10) for a fluid product, with at least one deformable zone (11) which is pressed to expel a spray; (2) inner plunger tube (30) with one end (30a) located close to the bottom of the reservoir, and its other end (30b) connected via a channel (22) to a spray outlet (21); and (3) air passage (41) allowing air inside the reservoir to mix with the product in the plunger tube. An atomizer consists of a reservoir (10) for a fluid product, made with at least one deformable zone (11) which is pressed to expel a spray. It has an inner plunger tube (30) with one end (30a) located close to the bottom of the reservoir, and its other end (30b) connected via a channel (22) to a spray outlet (21). It also has an air passage (41) allowing air inside the reservoir to mix with the product in the plunger tube. The deformable zone (11) has a predetermined threshold of resistance to pressure, so that the volume of the reservoir is not reduced before a pressure is applied to it.

IPC 8 full level

B65D 1/32 (2006.01); **B05B 11/04** (2006.01)

CPC (source: EP US)

B05B 11/043 (2013.01 - EP US); **B65D 1/32** (2013.01 - EP US)

Cited by

EP1757526A1; AU2004207049B2; CN111703723A; US7780041B2; US7690536B2; WO2004067392A3; WO2014023494A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

EP 1279607 A1 20030129; **EP 1279607 B1 20060913**; AT E339358 T1 20061015; DE 60214631 D1 20061026; DE 60214631 T2 20071004; ES 2271202 T3 20070416; FR 2827840 A1 20030131; FR 2827840 B1 20030926; US 2003075554 A1 20030424; US 6860404 B2 20050301

DOCDB simple family (application)

EP 02291675 A 20020704; AT 02291675 T 20020704; DE 60214631 T 20020704; ES 02291675 T 20020704; FR 0109932 A 20010725; US 20198502 A 20020725