

Title (en)

Piezoelectric spraying system and corresponding refill

Title (de)

Piezoelektrisches Sprühsystem und entsprechende Ersatzpatrone

Title (fr)

Système de pulvérisation piézoélectrique et recharge correspondante

Publication

**EP 1935505 B1 20130424 (FR)**

Application

**EP 07123600 A 20071219**

Priority

FR 0655746 A 20061220

Abstract (en)

[origin: EP1935505A1] The piezoelectric system for pulverizing viscous liquids e.g. perfumes, comprises a casing (2) defining a housing to receive removable refills, electric motors placed in the casing, and a control circuit for operating the motors and a pulverization device (3). The removable refill comprises a tank with a pulverizer product, a part of piezoelectric pulverization device, a product supplying system with a pump, and a product supply chamber. The pulverization device comprises a vibration membrane drifted by the refill, and a piezoelectric element to carry out the vibration of the membrane. The piezoelectric system for pulverizing viscous liquids e.g. perfumes, comprises a casing (2) defining a housing to receive removable refills, electric motors placed in the casing, and a control circuit for operating the motors and a pulverization device (3). The removable refill comprises a tank with a pulverizer product, a part of piezoelectric pulverization device, a product supplying system with a pump, and a product supply chamber. The pulverization device comprises a vibration membrane drifted by the refill, and a piezoelectric element to carry out the vibration of the membrane. The piezoelectric element is drifted by the casing and removable refill. The pump comprises two organs rotating in contact with each other. The product supplying system is activated by the electric motor. The tank comprises a flexible sac. The casing comprises a base part of the electric motor, a removable hood (5) having an opening through which the product is pulverized, and a push button in an upper part to actuate the pulverization cycle. The control circuit is arranged to provide the duration of the pulverization and to deliver an information about the emptying of the tank to the user. An independent claim is included for a refill for the pulverization system.

IPC 8 full level

**B05B 17/06** (2006.01)

CPC (source: EP US)

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