

Title (en)

Method for dispensing a product sprayed by a piezoelectric spraying system and spraying system for implementing such a method

Title (de)

Verfahren zum Spenden eines mithilfe eines piezoelektrischen Sprühsystems versprühten Produkts und Sprühsystem zur Umsetzung dieses Verfahrens

Title (fr)

Procédé de distribution d'un produit pulvérisé par un système de pulvérisation piézoélectrique et système de pulvérisation pour la mise en oeuvre d'un tel procédé

Publication

EP 1935280 B1 20091021 (FR)

Application

EP 07123781 A 20071220

Priority

FR 0655745 A 20061220

Abstract (en)

[origin: EP1935280A1] The process for distributing a cosmetic or care product such as make-up foundation and self-tanning composition, comprises receiving a product circulating in a tank during the pulverization cycle in a chamber of a piezoelectric pulverization device (3), and detecting a gradient of the chamber. The direction of circulation of the product is reversed at the end of the pulverization cycle to evacuate the product. The circulation is carried out using a pump placed in a direction for supplying the product and in an opposite direction for discharging the chamber. The process for distributing a cosmetic or care product such as make-up foundation and self-tanning composition, comprises receiving a product circulating in a tank during the pulverization cycle in a chamber of a piezoelectric pulverization device (3), and detecting a gradient of the chamber. The direction of circulation of the product is reversed at the end of the pulverization cycle to evacuate the product. The circulation is carried out using a pump placed in a direction for supplying the product and in an opposite direction for discharging the chamber. The pump has two rotative organs, and is closed to stop the communication between the chamber and the tank. The piezoelectric pulverization device maintains its operation for 0.5-2 seconds and stops its operation after the direction of the circulation is reversed. Duration of the circulation of the product towards the chamber is unrecorded. An audible and/or visual signal is emitted according to the duration of the product circulation to give information about the emptying of the tank to the user. The pulverization device comprises a vibration membrane. The product is received in the tank without retaking the air. The supply of the product is carried out using a pipe placed at lower end of the chamber when the pulverization device is in normal position. The chamber has a volume of 0.25-0.75 ml, and a flow of 0.7-0.9 g/mn during pulverization. An independent claim is included for a system for pulverization of product.

IPC 8 full level

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CPC (source: EP US)

B05B 9/0861 (2013.01 - EP US); **B05B 15/50** (2018.02 - EP US); **B05B 17/0646** (2013.01 - EP US); **B05B 17/0676** (2013.01 - EP US); **A45D 2200/207** (2013.01 - EP US); **B05B 9/0866** (2013.01 - EP US); **B05B 9/0872** (2013.01 - EP US); **B05B 12/02** (2013.01 - EP US); **B05B 17/0661** (2013.01 - EP US)

Citation (examination)

EP 1905469 A1 20080402 - PFEIFFER ERICH GMBH & CO KG [DE]

Cited by

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