

Title (en)

FLUID PRODUCT SPRAY HEAD AND DISTRIBUTING PUMP COMPRISING THIS SPRAY HEAD

Title (de)

FLUIDPRODUKTSPRÜHKOPF UND DIESEN SPRÜHKOPF UMFASSENDE ABGABEPUMPE

Title (fr)

TETE DE PULVERISATION DE PRODUIT FLUIDE ET POMPE DE DISTRIBUTION COMPORTANT UNE TELLE TETE.

Publication

**EP 1697670 A1 20060906 (FR)**

Application

**EP 04805812 A 20041105**

Priority

- FR 2004050569 W 20041105
- FR 0313095 A 20031107

Abstract (en)

[origin: WO2005045292A1] A fluid product spray head (40) comprises a spray orifice (45) and a spray profile (100) upstream from this spray orifice (45). Said spray profile has a swirling chamber (101) connected, during the spraying of the product, to the spray orifice (45) and to at least one non-radial channel (110) connected to the swirling chamber (101). The spray profile (100) is provided in the bottom of the spray head (40). A obturator (38) interacts with the spray orifice (45) while being able to be displaced and/or deformed between a closing position of the spray orifice (45) and an open position of the spray orifice (45). The inventive spray head (40) has an axially hollow sleeve (150) that accommodates the spray profile (100), and said obturator (38) axially displaces and/or deforms at least partially in said sleeve (150).

IPC 8 full level

**F16K 39/02** (2006.01); **B05B 1/34** (2006.01); **B05B 11/00** (2006.01)

CPC (source: EP US)

**B05B 1/3421** (2013.01 - EP US); **B05B 1/3473** (2013.01 - EP US); **B05B 11/1004** (2023.01 - EP US); **B05B 11/1016** (2023.01 - EP US); **Y10S 239/12** (2013.01 - EP)

Citation (search report)

See references of WO 2005045292A1

Cited by

JP4847871B2; FR3126287A1; WO2023030709A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**FR 2862009 A1 20050513**; **FR 2862009 B1 20070105**; CN 100487292 C 20090513; CN 1886612 A 20061227; DE 602004011986 D1 20080403; DE 602004011986 T2 20090226; EP 1697670 A1 20060906; EP 1697670 B1 20080220; JP 2007515266 A 20070614; JP 4847871 B2 20111228; US 2007131799 A1 20070614; US 7448559 B2 20081111; WO 2005045292 A1 20050519

DOCDB simple family (application)

**FR 0313095 A 20031107**; CN 200480035566 A 20041105; DE 602004011986 T 20041105; EP 04805812 A 20041105; FR 2004050569 W 20041105; JP 2006537394 A 20041105; US 57822504 A 20041105