

Title (en)

Method and apparatus for simultaneously dispersing and spraying of at least two fluids

Title (de)

Verfahren und Vorrichtung zur gleichzeitigen Dispergierung und Zerstäubung von mindestens zwei Flüssigkeiten

Title (fr)

Procédé et dispositif de dispersion et pulvérisation simultanées d'au moins deux fluides

Publication

**EP 0698418 A2 19960228 (DE)**

Application

**EP 95112765 A 19950814**

Priority

DE 4430307 A 19940826

Abstract (en)

The two liquids (F1, F2) are fed separately to the spray head as is the propellant gas. The ducts are concentric at the spray head and each liquid is separately mixed with the propellant and the separate mixture are directed onto a shaped flange (16) with a lip (17) which causes atomisation. A mixing chamber (2) with alternate expansion- and compression stages mixes the two spray types. The final mixture is expelled via a conical, converging jet (20) to provide a spray cone. The propellant and liquid mixing is provided by the shaped ducts which merge the two flows. The separate mixed flows are directed onto the shaped flange via exit holes arranged alternately around the spray head.

Abstract (de)

Die Erfindung betrifft ein Verfahren und eine Vorrichtung zur gleichzeitigen Zerstäubung und Dispergierung von mindestens zwei Flüssigkeiten unter Verwendung von Treibgas, bei dem das resultierende Gas-Flüssigkeitsgemisch durch eine aus hintereinandergeschalteten Entspannungsräumen bestehende Zerstäuberammer geführt wird und in Form eines Sprühkegels aus einem stromabwärts an der Zerstäuberammer angebrachten Düsenpalt ausströmt. <IMAGE>

IPC 1-7

**B05B 7/04**

IPC 8 full level

**B05B 7/04** (2006.01); **B05B 7/06** (2006.01); **F23D 11/10** (2006.01); **F23G 5/44** (2006.01)

CPC (source: EP US)

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Citation (applicant)

- DE 3216420 A1 19831103 - BAYER AG [DE]
- DE 2645142 A1 19771208 - MITSUBISHI PRECISION CO LTD

Cited by

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**EP 0698418 A2 19960228**; **EP 0698418 A3 19961120**; **EP 0698418 B1 20011107**; AT E208237 T1 20011115; DE 4430307 A1 19960229; DE 59509798 D1 20011213; ES 2166795 T3 20020501; US 5639024 A 19970617

DOCDB simple family (application)

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