

Title (en)

Device for spraying workpieces with liquids

Title (de)

Einrichtung zum Besprühen von Werkstücken mit Flüssigkeiten

Title (fr)

Dispositif de projection de liquides sur des pièces

Publication

**EP 1153664 A3 20030604 (DE)**

Application

**EP 01115245 A 19961126**

Priority

- DE 19544016 A 19951127
- EP 96941034 A 19961126

Abstract (en)

[origin: DE19544016A1] In an atomiser head (28) which produces a conical droplet mist, two diametrically opposing shaping air ducts (156) are provided in the vicinity of the mist outlet aperture. The shaping air jets emerging from these ducts flatten the droplet mist which thus has a larger cone angle in one direction and a smaller cone angle in the other direction. A droplet mist thus flattened can be used to apply a layer of liquid to areas of a workpiece surface in a manner particularly true to the surface contours.

IPC 1-7

**B05B 7/12**

IPC 8 full level

**B05B 7/08** (2006.01); **B05B 7/12** (2006.01); **B05B 7/16** (2006.01); **B05B 12/12** (2006.01); **B05B 1/30** (2006.01); **B05B 7/24** (2006.01)

CPC (source: EP US)

**B05B 7/0815** (2013.01 - EP US); **B05B 7/1272** (2013.01 - EP US); **B05B 7/1606** (2013.01 - EP US); **B05B 7/1693** (2013.01 - EP US); **B05B 7/2486** (2013.01 - EP US); **B05B 12/122** (2013.01 - EP US); **B05B 12/126** (2013.01 - EP US); **B05B 1/306** (2013.01 - EP US)

Citation (search report)

- [XA] US 2817600 A 19571224 - YAHNKE JAMES G
- [X] EP 0092365 A2 19831026 - NORDSON CORP [US]
- [A] US 4032670 A 19770628 - WARNING SR WALTER B, et al
- [A] GB 2169724 A 19860716 - MINDON ENGINEERING
- [A] US 3444839 A 19690520 - ELLUL JOSEPH M
- [A] DE 3418703 A1 19851121 - PFEIFER RUDI
- [A] US 2590442 A 19520325 - MILLER GLEN W, et al

Cited by

EP2089164B2

Designated contracting state (EPC)

DE ES FR GB SE

DOCDB simple family (publication)

**DE 19544016 A1 19970528**; EP 0805718 A2 19971112; EP 1153664 A2 20011114; EP 1153664 A3 20030604; US 5989344 A 19991123; WO 9719757 A2 19970605; WO 9719757 A3 19970724

DOCDB simple family (application)

**DE 19544016 A 19951127**; EP 01115245 A 19961126; EP 9605228 W 19961126; EP 96941034 A 19961126; US 87556797 A 19970725