

Title (en)

ULTRASONIC STANDING WAVE SPRAYING ARRANGEMENT

Title (de)

ULTRASCHALL-STEHWELLEN-ZERSTÄUBERANORDNUNG

Title (fr)

SYSTEME DE PULVERISATION A ONDES STATIONNAIRES ULTRASONORES

Publication

EP 1560663 A1 20050810 (DE)

Application

EP 03811742 A 20031029

Priority

- DE 10252437 A 20021112
- EP 0311967 W 20031029

Abstract (en)

[origin: DE10252437A1] The appliance has a sonotrode (12), an opposite construction part (14), e.g. a second sonotrode, a vertical ultrasonic field in the gap between the two, and a feed device (29) to supply paint. The device has at least two pref. three pipe sections (30,31,32) in the area of the vertical ultrasonic field, for paint discharge. At least two of the pipe sections are located within a selected max. of the sound particle velocity of the field. The paint outlets of the pipe sections are positioned esp. in an equilateral triangle. The pipe sections have a hydrophobic surface, esp. a TFE coating.

IPC 1-7

B05B 17/06; B22F 9/08

IPC 8 full level

B05B 17/06 (2006.01); **C23C 4/12** (2006.01)

CPC (source: EP US)

B05B 17/0623 (2013.01 - EP US); **C23C 4/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2004048001A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

DE 10252437 A1 20040527; DE 50308133 D1 20071018; EP 1560663 A1 20050810; EP 1560663 B1 20070905; JP 2006505407 A 20060216; US 2006005766 A1 20060112; WO 2004048001 A1 20040610

DOCDB simple family (application)

DE 10252437 A 20021112; DE 50308133 T 20031029; EP 0311967 W 20031029; EP 03811742 A 20031029; JP 2004554295 A 20031029; US 52654605 A 20050303