

Title (en)  
Rotary sprayer and bearing for this sprayer

Title (de)  
Rotationszerstäuber und Lagereinheit hierfür

Title (fr)  
Pulvérisateur rotatif et palier pour ce pulvérisateur

Publication  
**EP 1384514 A3 20051026 (DE)**

Application  
**EP 03016335 A 20030718**

Priority  
DE 10233198 A 20020722

Abstract (en)  
[origin: EP1384514A2] The rotating atomizer has a rotating shaft for the cup plate (4) to generate a spray stream at the surface to be coated, and at least one deflection outflow (8,9) for deflection air forming the spray stream. An air supply line (18) within the housing (7), to deliver air to the deflection outflows, passes at least partially axially through the bearing unit (19) of the drive turbine (5). The bearing unit has at least one deflection air outlet at its mantle surface, linked by a drilling (23) to the deflection air outlet at the end side towards the cup plate.

IPC 1-7  
**B05B 3/10**

IPC 8 full level  
**B05B 3/10** (2006.01); **B05B 7/08** (2006.01)

CPC (source: EP US)  
**B05B 3/10** (2013.01 - EP US); **B05B 3/1035** (2013.01 - EP US); **B05B 3/1092** (2013.01 - EP US)

Citation (search report)

- [X] US 5397063 A 19950314 - WEINSTEIN RICHARD [US]
- [X] DE 19517477 A1 19961114 - ABB PATENT GMBH [DE]

Cited by  
WO2024126109A1; USD873874S; USD903733S; EP1764157A2; DE102017212480A1; WO2019015843A1; DE102017212480B4

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1384514 A2 20040128; EP 1384514 A3 20051026; EP 1384514 B1 20090909**; AT E442206 T1 20090915; DE 10233198 A1 20040205; DE 50311882 D1 20091022; ES 2333208 T3 20100218; SI 1384514 T1 20100129; US 2004129799 A1 20040708; US 7036750 B2 20060502

DOCDB simple family (application)  
**EP 03016335 A 20030718**; AT 03016335 T 20030718; DE 10233198 A 20020722; DE 50311882 T 20030718; ES 03016335 T 20030718; SI 200331712 T 20030718; US 62458603 A 20030722