

Title (en)  
ROTARY ELECTROSTATIC COATING APPARATUS

Title (de)  
ROTIERENDES ELEKTROSTATISCHES BESCHICHTUNGSGERÄT

Title (fr)  
APPAREIL DE REVETEMENT ROTATIF ELECTROSTATIQUE

Publication  
**EP 2058053 A4 20140423 (EN)**

Application  
**EP 07828950 A 20071001**

Priority  
• JP 2007069210 W 20071001  
• JP 2006275475 A 20061006

Abstract (en)  
[origin: EP2058053A1] A rotary electrostatic atomizer is capable of changing the coating pattern width. Shaping air outlets (1) are aligned on a circle concentric with the rotation axis line (L) of a rotary head, and pattern control air outlets (3) are provided on a circle concentrically surrounding the alignment of the shaping air outlets (1). The shaping air outlets (1) and the pattern control air outlets (3) incline around the rotation axis line (L) such that shaping air (5) from the shaping air outlets (1) and pattern control air (6) from the pattern control air outlets (3) make spiral air flows twirling in the same direction. Angle ( $\theta$ ) of inclination of the pattern control air (6) is larger in absolute value than angle ( $\pm$ ) of inclination of the shaping air.

IPC 8 full level  
**B05B 3/10** (2006.01); **B05B 5/04** (2006.01)

CPC (source: EP)  
**B05B 5/0407** (2013.01); **B05B 5/0426** (2013.01)

Citation (search report)  
• [X] JP H0884941 A 19960402 - NISSAN MOTOR  
• [X] JP H0994488 A 19970408 - MAZDA MOTOR  
• See references of WO 2008044527A1

Cited by  
WO2013153205A1; RU2623413C2; CN107614118A; EP3056283A1; FR2936434A1; FR2989289A1; CN104379265A; US9943864B2; US10343179B2; US8973850B2; WO2016195044A1; WO2010037972A1; US10335809B2; US9295999B2; US10016770B2; EP3056283B1; EP3269454B1; EP3269454B2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 2058053 A1 20090513; EP 2058053 A4 20140423**; CA 2665181 A1 20080417; CA 2665181 C 20130611; CN 101573184 A 20091104; JP 2008093521 A 20080424; TW 200900157 A 20090101; WO 2008044527 A1 20080417

DOCDB simple family (application)  
**EP 07828950 A 20071001**; CA 2665181 A 20071001; CN 200780036748 A 20071001; JP 2006275475 A 20061006; JP 2007069210 W 20071001; TW 96137277 A 20071004