

Title (en)
Nozzle

Title (de)
Düsenvorrichtung

Title (fr)
Buse

Publication
EP 1661627 B1 20090513 (DE)

Application
EP 05110999 A 20051121

Priority
DE 102004056867 A 20041125

Abstract (en)
[origin: EP1661627A1] The nozzle apparatus comprises a housing (16) having inlet path (75) connectable to the spraying line (8) and outlet path leading to the nozzle port (27). A ball valve (54) is configured between the inlet and outlet paths. The valve ball (60) is rotatable between full open position and half open throttle position by an electric motor.

IPC 8 full level
B05B 1/16 (2006.01); **A01M 7/00** (2006.01); **B05B 1/28** (2006.01); **B05B 15/658** (2018.01)

CPC (source: EP US)
B05B 1/1645 (2013.01 - EP US); **B05B 1/3026** (2013.01 - EP US); **B05B 15/658** (2018.01 - EP US); **Y10T 137/86501** (2015.04 - EP US); **Y10T 137/87877** (2015.04 - EP US); **Y10T 137/87885** (2015.04 - EP US)

Citation (examination)

- DE 101128385 A
- US 5944055 A 19990831 - DICKY JULIUS [US]

Cited by
EP2522432A1; WO2009156444A1; EP2522433A1; DE102010002802A1; DE102010002802B4; EP3001901A1; DE102011050233A1; DE102010036437A1; WO2012007074A1; US9027853B2; US10072762B2; DE102011050234A1

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

DOCDB simple family (publication)
EP 1661627 A1 20060531; EP 1661627 B1 20090513; AR 053788 A1 20070523; AT E431192 T1 20090515; BR PI0505335 A 20060711; CA 2527800 A1 20060525; CA 2527800 C 20120821; DE 102004056867 A1 20060601; DE 502005007267 D1 20090625; DK 1661627 T3 20090824; US 2006108456 A1 20060525; US 2009184182 A1 20090723; US 7861946 B2 20110104

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EP 05110999 A 20051121; AR P050104952 A 20051125; AT 05110999 T 20051121; BR PI0505335 A 20051125; CA 2527800 A 20051124; DE 102004056867 A 20041125; DE 502005007267 T 20051121; DK 05110999 T 20051121; US 14608308 A 20080625; US 28673805 A 20051123