

Title (en)
ATOMISATION NOZZLE WITH ROTATING ANNULAR GAP

Title (de)
ZERSTÄUBUNGSDÜSE MIT ROTATIVEM RINGSPALT

Title (fr)
BUSE DE PULVERISATION A FENTE ANNULAIRE ROTATIVE

Publication
EP 1521639 A1 20050413 (DE)

Application
EP 03763874 A 20030716

Priority
• DE 10232863 A 20020716
• EP 0307715 W 20030716

Abstract (en)
[origin: WO2004007085A1] An atomisation nozzle (10) comprises a flow channel (16) which is annular in cross-section, for the supply of a medium for atomisation, enclosed by two radially-separated walls (18, 30) and which opens out in an annular nozzle opening (40). Furthermore, a second flow channel (50), enclosing the first flow channel, is provided for supply of a gaseous spraying medium (65), which also opens out in an annular nozzle opening (54). According to the invention, the walls (18, 30) enclosing the first flow channel (16) may rotate relative to each other about a nozzle longitudinal axis (70).

IPC 1-7
B05B 7/06

IPC 8 full level
B05B 1/32 (2006.01); **B05B 3/02** (2006.01); **B05B 3/10** (2006.01); **B05B 7/06** (2006.01); **B05B 1/26** (2006.01)

CPC (source: EP)
B05B 1/323 (2013.01); **B05B 3/02** (2013.01); **B05B 3/105** (2013.01); **B05B 7/067** (2013.01); **B05B 1/265** (2013.01)

Citation (search report)
See references of WO 2004007085A1

Cited by
DE102010052312A1; WO2012065931A1; DE102012007671A1; WO2013156088A1; EP4173720A1; DE102021128338A1

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)
WO 2004007085 A1 20040122; AT E311257 T1 20051215; AU 2003250968 A1 20040202; CA 2492299 A1 20040122; CN 100441310 C 20081210; CN 1668383 A 20050914; DE 10232863 A1 20040205; DE 50301819 D1 20060105; DK 1521639 T3 20051227; EP 1521639 A1 20050413; EP 1521639 B1 20051130; ES 2252697 T3 20060516; JP 2006501048 A 20060112

DOCDB simple family (application)
EP 0307715 W 20030716; AT 03763874 T 20030716; AU 2003250968 A 20030716; CA 2492299 A 20030716; CN 03816802 A 20030716; DE 10232863 A 20020716; DE 50301819 T 20030716; DK 03763874 T 20030716; EP 03763874 A 20030716; ES 03763874 T 20030716; JP 2004520651 A 20030716