

Title (en)

LIQUID SPRAYER USING ATOMISING GAS MIXED WITH THE LIQUID IN A SWIRL CHAMBER

Title (de)

FLÜSSIGKEITSZERSTÄUBER MIT VERMISCHUNG VON ZERSTÄUBUNGSGAS UND FLÜSSIGKEIT IN EINER WIRBELKAMMER

Title (fr)

PULVERISATEUR DE LIQUIDE UTILISANT UN GAZ D'ATOMISATION MELANGE AUN LIQUIDE DANS UN CHAMBRE DE TOURBILLONNEMENT

Publication

EP 1183106 A1 20020306 (EN)

Application

EP 00912875 A 20000324

Priority

- IL 0000182 W 20000324
- IL 12923599 A 19990329

Abstract (en)

[origin: WO0058014A1] A two-phase sprayer for spraying a liquid using an atomizing gas that comprises an annular swirl chamber (50) having a downstream end comprising a substantially annular throat region (52) having an inner diameter and an outer diameter; a gas feed tube (20) adapted for the supply of the atomizing gas where the gas feed tube has a downstream gas feed end (22) comprising a lateral gas port (25) in fluid communication with the swirl chamber (50). The lateral gas port (25) adapted to impart a tangential velocity component to gas fed from gas feed pipe (20) to the swirl chamber (50) within the throat region (52); and a liquid feed tube (30) adapted for the supply of the liquid to be sprayed and having a downstream liquid feed tube end (32) comprising a lateral liquid port (35) in fluid communication with the swirl chamber (50). The liquid port (35) is in fluid communication with the annular throat region (52).

IPC 1-7

B05B 7/04; **B05B 7/10**

IPC 8 full level

B05B 7/04 (2006.01); **B05B 7/06** (2006.01); **B05B 7/10** (2006.01); **B05B 1/26** (2006.01)

CPC (source: EP)

B05B 7/0466 (2013.01); **B05B 7/067** (2013.01); **B05B 7/10** (2013.01); **B05B 1/265** (2013.01)

Citation (search report)

See references of WO 0058014A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0058014 A1 20001005; AU 3451500 A 20001016; CA 2366370 A1 20001005; EP 1183106 A1 20020306; IL 129235 A0 20000217

DOCDB simple family (application)

IL 0000182 W 20000324; AU 3451500 A 20000324; CA 2366370 A 20000324; EP 00912875 A 20000324; IL 12923599 A 19990329