

Title (en)  
Liquid atomizing nozzle

Title (de)  
Flüssigkeitszerstäubungsdüse

Title (fr)  
Buse d'atomisation de liquide.

Publication  
**EP 0845300 A3 19990120 (EN)**

Application  
**EP 97119735 A 19971111**

Priority  
JP 31663796 A 19961127

Abstract (en)  
[origin: EP0845300A2] The present invention provides a liquid atomizing nozzle for atomizing liquid material being highly viscous or containing bulky solid materials, comprising a liquid supplying pipe (1), a cylindrical chamber (2) for whirling of air being connected at one end with the liquid supplying pipe (1), having an inside diameter larger than that of the liquid supplying pipe (1), and being provided with one or more through holes (3) for passing through pressurized air tangentially, an orifice (4) at the top of the cylindrical chamber (2) with a circular opening (5) being smaller than the inside diameter of the cylindrical chamber (2), and an external cylinder (6) covering the cylindrical chamber (2) and at least partly the liquid supplying pipe (1) and being provided with a pressurized air supplying pipe (7). <IMAGE>

IPC 1-7  
**B05B 7/04**

IPC 8 full level  
**B05B 7/06** (2006.01); **B05B 7/04** (2006.01); **B05B 7/10** (2006.01)

CPC (source: EP)  
**B05B 7/0475** (2013.01); **B05B 7/10** (2013.01)

Citation (search report)  
• [X] US 3897007 A 19750729 - ROY JOSEPH G  
• [X] US 4422900 A 19831227 - BORDELON KENT J [US], et al  
• [A] US 4165038 A 19790821 - KUMAZAWA TOSHIHARU

Cited by  
CN107126831A; CN108114822A; CN113834704A; WO2021197825A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0845300 A2 19980603; EP 0845300 A3 19990120**; CA 2221897 A1 19980527; JP H10156230 A 19980616

DOCDB simple family (application)  
**EP 97119735 A 19971111**; CA 2221897 A 19971121; JP 31663796 A 19961127