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(11) **EP 0 845 300 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**20.01.1999 Bulletin 1999/03**

(51) Int. Cl.<sup>6</sup>: **B05B 7/04**, B05B 7/10

(43) Date of publication A2:  
**03.06.1998 Bulletin 1998/23**

(21) Application number: **97119735.5**

(22) Date of filing: **11.11.1997**

(84) Designated Contracting States:  
**AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC  
NL PT SE**  
Designated Extension States:  
**AL LT LV MK RO SI**

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(30) Priority: **27.11.1996 JP 316637/96**

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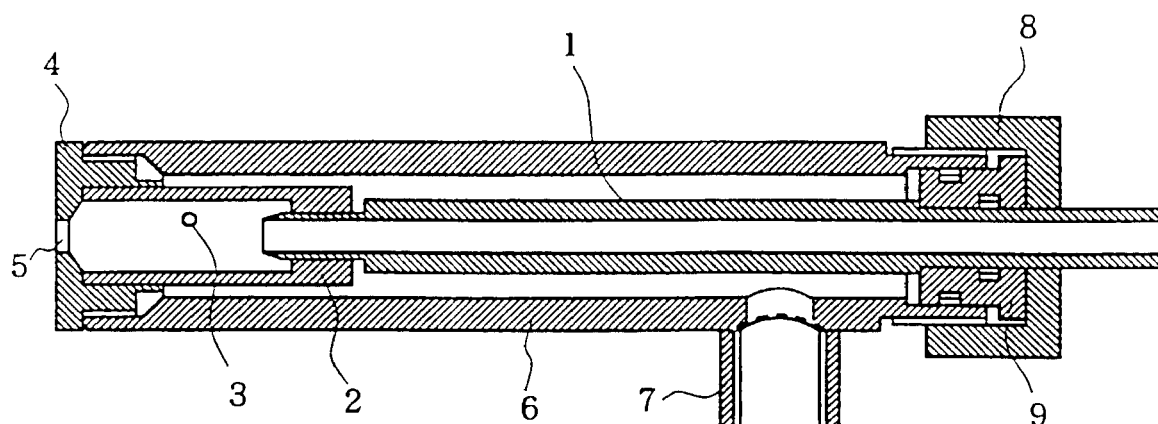
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(54) **Liquid atomizing nozzle**

(57) 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).

**FIG.1**



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# EUROPEAN SEARCH REPORT

Application Number  
EP 97 11 9735

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	US 3 897 007 A (ROY JOSEPH G) 29 July 1975 * column 2, line 15 - line 44 * ---	1,2	B05B7/04 B05B7/10
X	US 4 422 900 A (BORDELON KENT J ET AL) 27 December 1983 * column 3, line 46 - column 4, line 26 * ---	1	
A	US 4 165 038 A (KUMAZAWA TOSHIHARU) 21 August 1979 * column 8, line 32 - line 35; figure 8 * -----	5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B05B F23D
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>25 November 1998</b>	Examiner <b>Juguet, J</b>
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (P04C01)