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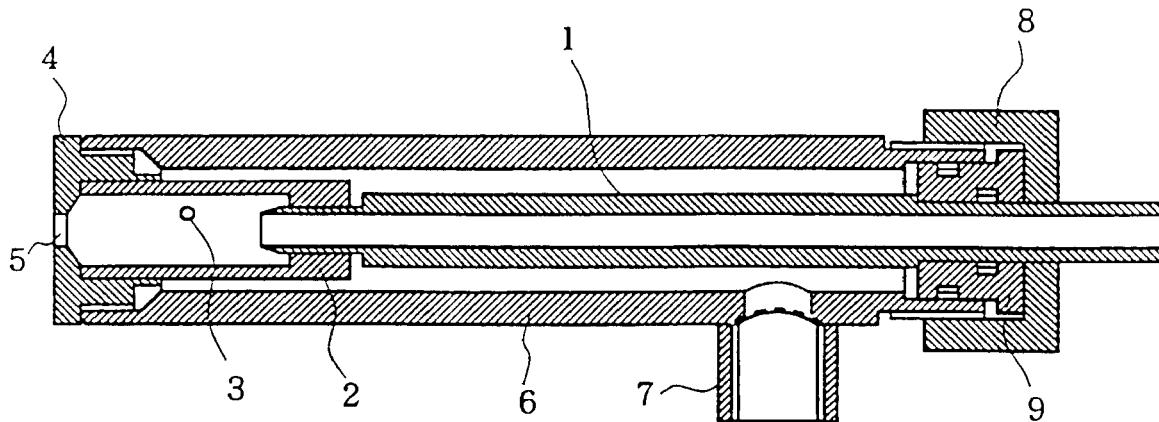
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### (54) Liquid atomizing nozzle

(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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| 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<br>* column 2, line 15 - line 44 *<br>---<br>X US 4 422 900 A (BORDELON KENT J ET AL) 27 December 1983<br>* column 3, line 46 - column 4, line 26 *<br>---<br>A US 4 165 038 A (KUMAZAWA TOSHIHARU) 21 August 1979<br>* column 8, line 32 - line 35; figure 8 *<br>----- | 1,2<br>1<br>5   | B05B7/04<br>B05B7/10                         |                 |                                  |          |           |                  |           |
|  |   |   | TECHNICAL FIELDS SEARCHED (Int.Cl.6)         |                 |                                  |          |           |                  |           |
|  |   |   | B05B<br>F23D                                 |                 |                                  |          |           |                  |           |
| <p>The present search report has been drawn up for all claims</p> <table border="1"> <tr> <td>Place of search</td> <td>Date of completion of the search</td> <td>Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>25 November 1998</td> <td>Juguet, J</td> </tr> </table> |   |   |  | Place of search | Date of completion of the search | Examiner | THE HAGUE | 25 November 1998 | Juguet, J |
| Place of search  | Date of completion of the search  | Examiner  |  |                 |                                  |          |           |                  |           |
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