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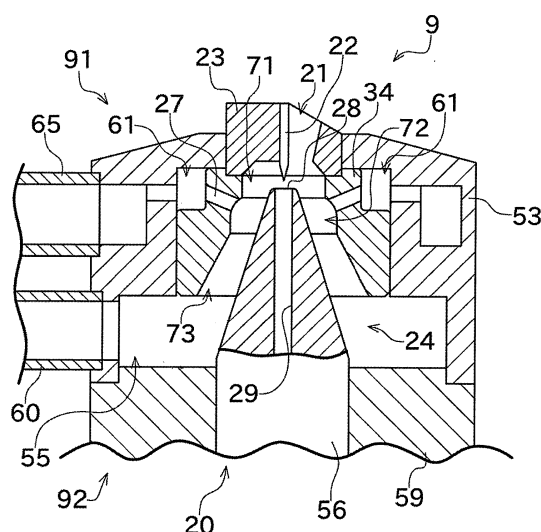
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(54) **Pneumatic spinning device and spinning machine**

(57) A pneumatic spinning device includes a nozzle block (34) and a hollow guide shaft body (20). The nozzle block (34) is provided with a depressurized suction chamber and a whirling chamber having a greater peripheral length than that of the depressurized suction chamber. The nozzle block (34) is provided with at least one air injecting nozzle (27). The air injecting nozzle (27) injects compressed air from a nozzle opening (27a) opening into the whirling chamber, thereby generating whirling airflow in the whirling chamber. A fiber passage is formed in the hollow guide shaft body (20). Moreover, the hollow guide shaft body (20) is arranged such that a tip end at an inlet of the fiber passage is located within the depressurized suction chamber. The nozzle opening (27a) is located downstream in a feeding direction of a fiber bundle than the tip end of the hollow guide shaft body (20).

FIG. 3





EUROPEAN SEARCH REPORT

Application Number
EP 11 15 9563

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 2 009 150 A1 (MURATA MACHINERY LTD [JP]) 31 December 2008 (2008-12-31)	1,4,6	INV. D01H4/02 D01H1/115
A	* paragraph [0026] - paragraph [0028] * * paragraph [0050] - paragraph [0052] * * figures 1, 8 *	2,3,5	
X,D	----- JP 2008 297687 A (MURATA MACHINERY LTD) 11 December 2008 (2008-12-11)	1,4,6	
A	* figures 1, 2 * * abstract *	2,3,5	
			TECHNICAL FIELDS SEARCHED (IPC)
			D01H
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 10 February 2015	Examiner Hausding, Jan
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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The members are as contained in the European Patent Office EDP file on
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10-02-2015

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 2009150 A1	31-12-2008	CN 102304788 A	04-01-2012
		EP 2009150 A1	31-12-2008

JP 2008297687 A	11-12-2008	CN 101319417 A	10-12-2008
		JP 5029146 B2	19-09-2012
		JP 2008297687 A	11-12-2008

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82