



(11) **EP 2 966 200 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
09.03.2016 Bulletin 2016/10

(51) Int Cl.:
D01H 1/115 (2006.01) **D01H 13/10** (2006.01)
D01H 13/04 (2006.01)

(43) Date of publication A2:
13.01.2016 Bulletin 2016/02

(21) Application number: **15170031.7**

(22) Date of filing: **01.06.2015**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
MA

(71) Applicant: **Murata Machinery, Ltd.**
Kyoto-shi, Kyoto 601-8326 (JP)

(72) Inventor: **MORI, Hideshige**
Kyoto-shi 612-8686 (JP)

(74) Representative: **Stöckeler, Ferdinand et al**
Schoppe, Zimmermann, Stöckeler
Zinkler, Schenk & Partner mbB
Patentanwälte
Radtkoferstrasse 2
81373 München (DE)

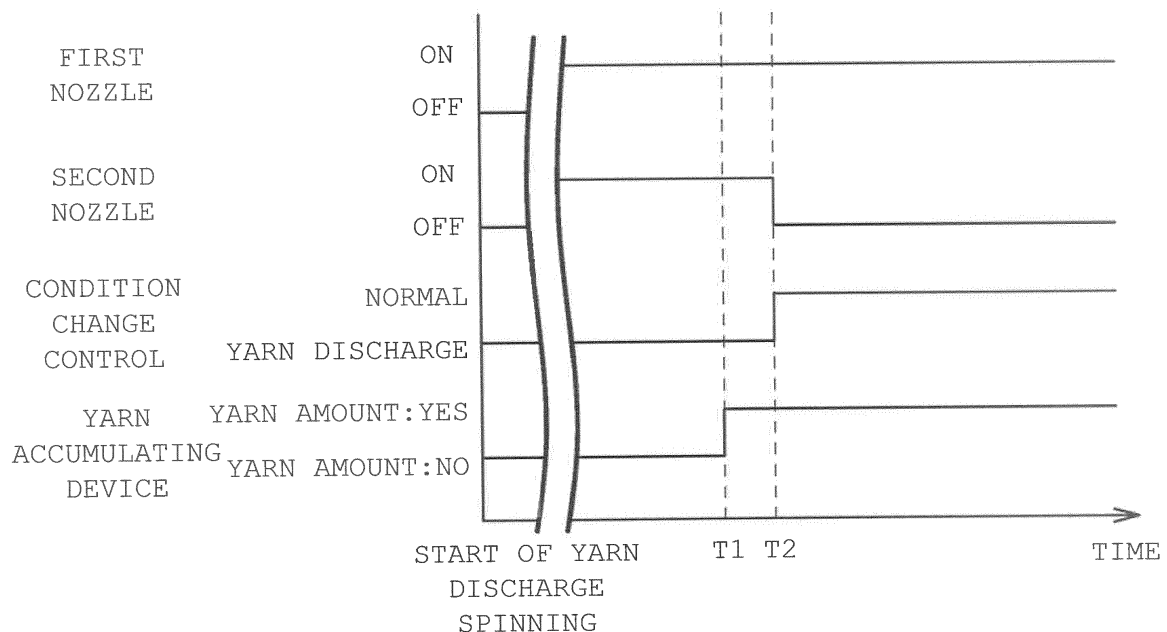
(30) Priority: **10.07.2014 JP 2014141879**

(54) **SPINNING MACHINE AND SPINNING METHOD**

(57) A spinning machine includes a pneumatic spinning device (9) and a yarn accumulating device (22). The pneumatic spinning device (9) includes a nozzle block (30) including a first nozzle (33) and a hollow guide shaft body (34) including a second nozzle (36). A yarn accumulating roller (41) accumulates a yarn (10) produced

by the pneumatic spinning device (9) while pulling out the yarn (10). Air is injected from the first nozzle (33) and the second nozzle (36) at least at an instance when the yarn (10) starts being wound around the yarn accumulating roller (41).

FIG. 8



EP 2 966 200 A3



EUROPEAN SEARCH REPORT

Application Number
EP 15 17 0031

5

10

15

20

25

30

35

40

45

50

55

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 2 537 968 A2 (MURATA MACHINERY LTD [JP]) 26 December 2012 (2012-12-26)	1,7,8	INV. D01H1/115 D01H13/10 D01H13/04
Y	* paragraph [0053] * * paragraph [0067] * * figures 2, 3 *	2-6	
X	EP 2 573 216 A2 (MURATA MACHINERY LTD [JP]) 27 March 2013 (2013-03-27) * paragraph [0053] - paragraph [0061] * * figure 3 *	1,7,8	
Y	EP 1 347 085 A2 (MURATA MACHINERY LTD [JP]) 24 September 2003 (2003-09-24) * paragraph [0024] - paragraph [0036] * * paragraph [0047] - paragraph [0051] * * figure 3 *	2-6	
Y,D	& JP 2003 278035 A (MURATA MACHINERY LTD) 2 October 2003 (2003-10-02)	2-6	
X,P	EP 2 876 192 A1 (MURATA MACHINERY LTD [JP]) 27 May 2015 (2015-05-27) * paragraph [0026] - paragraph [0037] * * figures 2, 3 *	1,7,8	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 26 January 2016	Examiner Hausding, Jan
CATEGORY OF CITED DOCUMENTS 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 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 & : member of the same patent family, corresponding document			

EPO FORM 1503 03.02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 15 17 0031

5

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

26-01-2016

10

15

20

25

30

35

40

45

50

55

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 2537968	A2	26-12-2012	CN	102839451 A		26-12-2012
			CN	105239224 A		13-01-2016
			CN	202643994 U		02-01-2013
			EP	2537968 A2		26-12-2012
			JP	2013002023 A		07-01-2013

EP 2573216	A2	27-03-2013	CN	103014941 A		03-04-2013
			EP	2573216 A2		27-03-2013
			JP	2013067882 A		18-04-2013

EP 1347085	A2	24-09-2003	CN	1445394 A		01-10-2003
			DE	60309233 T2		06-09-2007
			EP	1347085 A2		24-09-2003
			JP	3575470 B2		13-10-2004
			JP	2003278035 A		02-10-2003

EP 2876192	A1	27-05-2015	CN	104651984 A		27-05-2015
			EP	2876192 A1		27-05-2015
			JP	2015101805 A		04-06-2015
