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(71) Applicant: Murata Machinery, Ltd.

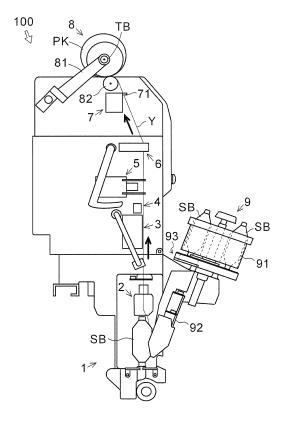
Minami-ku Kyoto-shi Kyoto 601-8326 (JP) (72) Inventor: Tanigawa, Yasunobu Kyoto, 612-8686 (JP)

(74) Representative: HOFFMANN EITLE Patent- und Rechtsanwälte Arabellastrasse 4 81925 München (DE)

(54)Winding device

(57)A bobbin supplying section (9) includes a magazine (91) provided with a plurality of through-holes (91H) in a circumferential direction, a guiding passage (92) arranged towards a part of the plurality of through-holes (91H), a plate member (931) arranged on one side of the through-holes (91H) excluding the through-hole (91H) to which the guiding passage (92) is directed to support the yarn supplying bobbins (SB) inserted to the through-holes (91H) excluding the through-hole (91H) to which the guiding passage (92) is directed, and an open/ close mechanism (93) for communicating or blocking the guiding passage (92) and the through-hole (91H) in which the plate member (931) is not arranged, the open/close mechanism (93) being movable by a driving device (94) adapted to rotate the magazine (91).





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EUROPEAN SEARCH REPORT

Application Number EP 12 19 3381

Ī	DOCUMENTS CONSIDERE		I 5	01.4001510
Category	Citation of document with indication of relevant passages	on, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X A	US 4 558 829 A (ARETZ U 17 December 1985 (1985- * column 5, lines 49-60 * column 6, lines 23-32 * column 7, lines 44-62 * column 10, lines 34-5	12-17)) * 2,53-55 *	1,2,6,7 3-5	INV. B65H67/02
A	US 3 265 316 A (STEFAN 9 August 1966 (1966-08-* column 2, lines 38-53 * column 3, lines 10-39	 FURST) -09) 3 *	1-7	
A	EP 2 014 596 A2 (MURATA [JP]) 14 January 2009 (* paragraph [0057]; fig	(2009-01-14)	1-7	
4	US 3 951 350 A (UCHIDA 20 April 1976 (1976-04- * column 3, lines 5-65;	-20)	1-7	
				TECHNICAL FIELDS SEARCHED (IPC)
				B65H
	The present search report has been d	rawn up for all claims		
	Place of search The Hague	Date of completion of the search	1.5	Examiner Ponó
X : parti Y : parti docu A : tech	The Hague ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another ument of the same category nological background		e underlying the i nument, but public e n the application or other reasons	men, René nvention shed on, or , corresponding

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

EP 12 19 3381

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.

05-12-2013

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4558829	A	17-12-1985	CH DE IT JP US	661911 3245325 1169369 S59194978 4558829	A1 B A	31-08-198 26-07-198 27-05-198 05-11-198 17-12-198
US 3265316	А	09-08-1966	CH GB US	411651 1061832 3265316	Α	15-04-196 15-03-196 09-08-196
EP 2014596	A2	14-01-2009	CN EP JP JP	101343003 2014596 4492650 2009018930	A2 B2	14-01-200 14-01-200 30-06-201 29-01-200
US 3951350	Α	20-04-1976	JP US	S49134955 3951350		25-12-197 20-04-197

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

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