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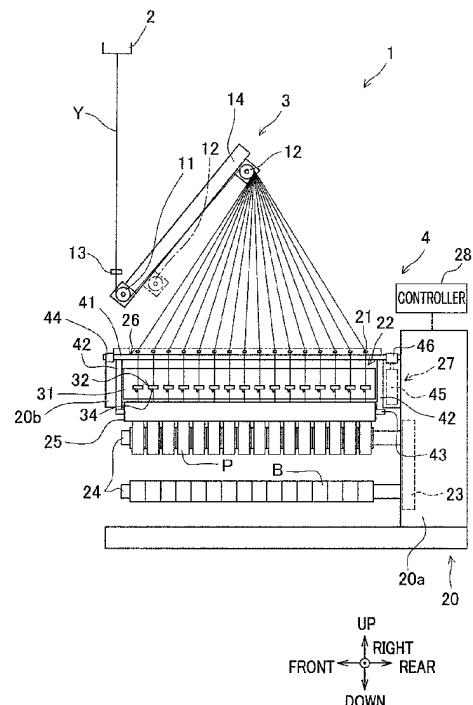
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(54) **YARN WINDER**

(57) A spun yarn take-up machine winds a plurality of yarns around a plurality of bobbins to form a plurality of packages. The spun yarn take-up machine includes: a bobbin holder that is arranged to extend in a predetermined direction and holds the plurality of bobbins side by side in the predetermined direction; a plurality of traverse guides for traversing each of the plurality of yarns along the predetermined direction; a traverse device that includes at least one of the plurality of traverse guides and is configured to drive the at least one traverse guide; and a movement drive unit that moves the traverse device at least in the predetermined direction.

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 (IPC)
X	JP S58 224973 A (ASAHI CHEMICAL IND) 27 December 1983 (1983-12-27) * abstract; figures 1,2 *	1-4, 8, 11, 12 6, 7 9, 10	INV. B65H54/28
Y			
A			
X	WO 02/08106 A2 (ADVANCED GLASSFIBER YARNS LLC [US]; MANN DOUGLAS BRIAN [US]) 31 January 2002 (2002-01-31) * page 7, line 9 - page 8, line 15; figures 2,3 *	1-5, 8, 11, 12	
X	WO 2009/030592 A1 (SIEMENS AG [DE]; TILL JUERGEN-MATTHIAS [DE]) 12 March 2009 (2009-03-12) * page 6, lines 1-28; figure 3 *	1, 2, 4	
Y,D	JP 2012 158436 A (TMT MACHINERY INC) 23 August 2012 (2012-08-23) * abstract *	6, 7	
			TECHNICAL FIELDS SEARCHED (IPC)
			B65H
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 29 April 2024	Examiner Pussemier, Bart
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	

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

EP 24 15 9048

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
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29-04-2024

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP S58224973 A	27-12-1983	NONE	
WO 0208106 A2	31-01-2002	AU 7699801 A	05-02-2002
		TW 524769 B	21-03-2003
		WO 0208106 A2	31-01-2002
WO 2009030592 A1	12-03-2009	CN 101795951 A	04-08-2010
		DE 102007041696 A1	05-03-2009
		WO 2009030592 A1	12-03-2009
JP 2012158436 A	23-08-2012	NONE	