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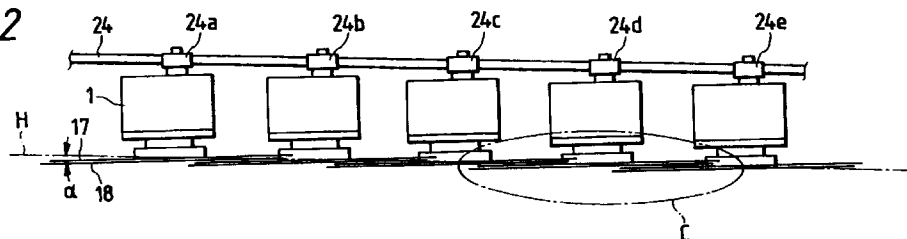
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(54) Yarn traverse apparatus

(57) A yarn traverse apparatus which prevents adjacent blades from interfering with each other and breaking even if blades of any of traverse mechanisms are out of phase and which allows the traverse mechanisms to be installed and removed easily. The yarn traverse apparatus includes a plurality of traverse mechanisms arranged so as to be adjacent to one another with respect to a plurality of juxtaposed bobbins. Each traverse mechanism has a set of two shafts arranged upstream of a corresponding bobbin. The two shafts are orthogonal to a shaft of the corresponding bobbin and rotate in opposite directions. Each of the two rotating shafts has blades attached thereto, the blades serving to traverse a yarn. Each traverse mechanism is

arranged to form two surfaces of rotation when the blades attached to the set of two rotating shafts rotate. The plurality of such traverse mechanisms are arranged so that loci of rotation of the blades belonging to adjacent sets partially intersect. When yarns are traversed by such yarn traverse apparatus, surfaces of rotation formed by the blades attached to the two shafts of rotation of each of the adjacent traverse mechanisms are uniformly as well as sufficiently inclined with respect to a surface formed by a yarn in a single direction as viewed in vertical directions, so that the surfaces of rotation formed by the blades belonging to the adjacent sets will not interfere with each other.

FIG. 2



EP 0 752 384 A3



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EUROPEAN SEARCH REPORT

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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)
P,X	WO 96 02453 A (NEUMAG-NEUMÜNSTERSCHE MASCHINEN- UND ANLAGENBAU GMBH) * the whole document *	1-7	B65H54/28
A,D	US 4 505 437 A (H. SCHIPPERS ET AL.) ---		
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			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			B65H
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 4 April 1997	Examiner D Hulster, E
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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