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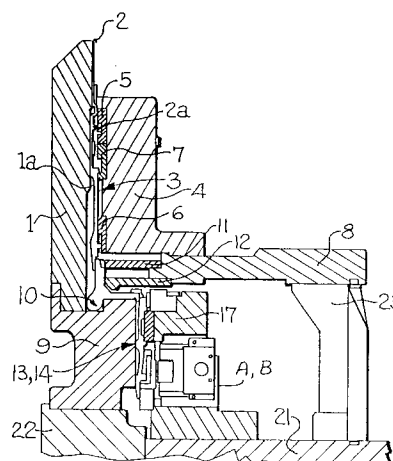
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BARON & WARREN 18 South End Kensington
London W8 5BU(GB)**(54) **Electromagnetic needle selection device for circular knitting machine.**

(57) Each yarn feeding and knitting station of the knitting machine is provided with an electromagnetic needle selection device so that the selection of knitting, tucking or welting of the needles is provided at each yarn feeding and knitting station thereby permitting the full range of pattern knitting at each yarn feeding and knitting station. A needle cylinder (1) is provided with grooves supporting knitting needles (2) and a rocking jack supporting cylinder (9) supporting first and second sets of rocking jacks (13, 14) is positioned beneath and in coaxial relationship with the needle cylinder (1). The rocking jack supporting cylinder (9) is of larger diameter than the needle cylinder and a right angle control lever (10) is positioned for rocking movement at the juncture of the smaller needle cylinder (1) and the larger rocking jack supporting cylinder (9). A spring jack (3) is retained below each needle (2) and includes a selecting butt for movement into and out of engagement with spring jack cams (6). First and second electromagnetic needle selection units (A and B) are positioned at each of the yarn feeding and knitting stations and adjacent the rocking jack supporting cylinder (9) and are operable for selectively imparting swinging movements to the rocking jacks (13, 14) so that the corresponding needles (2) may be selected for knitting, tucking or welting at each yarn

feeding and knitting station.

**Fig. 1****EP 0 395 383 A3**



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EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT			EP 90304459.2
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	<u>GB - A - 2 058 848</u> (SIPRA PATENTENTWICKLUNGS- UND BETEILIGUNGSGESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG) * Totality * --	1	D 04 B 15/78
A	<u>DE - A - 3 813 284</u> (OKUMA MACHINERY WORKS LTD.) * Fig. 10,11 * ----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			D 04 B
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 11-12-1991	Examiner NETZER
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 ----- A : member of the same patent family, corresponding document	