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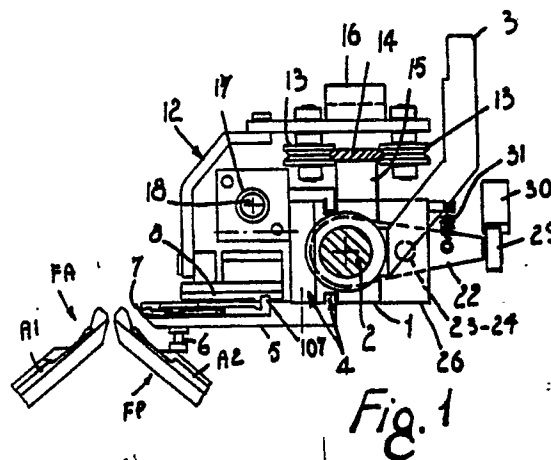
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(54) **Side-transfer device for flat knitting machines.**

(57) A side-transfer device for flat knitting machines, comprises, above and parallel to the needle bed which is opposite to the needle bed involved in the transfer, two smaller semi-needle beds (FT-FT'), each having a length which is half the length of the main needle bed, and spaced from each other, at their inner ends, by such an extent as to be longitudinally movable in and out to the maximum distance contemplated in the transfer step. Each semi-needle bed is provided with transfer fingers (7) spaced apart as the needles of the needle beds and in such a number as to serve half a needle bed. The longitudinal movements of said transfer fingers are controlled by a single auxiliary carriage (8). Each semi-needle bed (FT-FT') is supported by a slide (4-4') sliding on a guide (1) parallel to the needle beds of the machine, each slide being connected to means (17,18,19,20,17',18',19',20') which move it longitudinally for the transfer, rightwards, and leftwards. The guide (1), which also supports a guide for the auxiliary carriage (8), is connected to the frame of the machine so as to be pivotable about its longitudinal shaft (2) to enable, in an intermediate step, the transfer fingers (7) of the semi-needle beds to be raised and moved away from the needle beds in order to permit the transfer of the semi-needle beds to the extent required by the side transfer of the loops. The pivoting means comprises at least one

respective lever (22-22') pivotable on each end of a fulcrum shaft (2) and which may be locked to said shaft. The levers present, at their end, a respective roller (29-29') which co-operates with a cam (30) carried by the carriage of the machine.

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EUROPEAN SEARCH REPORT

Application Number

EP 88 10 5390

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.4)
A	DE-B-1149848 (UNIVERSAL-MASCHINENFABRIK DR. RUDOLF SCHIEBER G.M.B.H.) * column 4, line 9 - column 5, line 35; figures 1-14 *	1	D04B7/10
A	DE-A-2262199 (ABRIL CULLELI) * page 3, line 26 - page 6, line 14; figures 1-16 *	1	
A	EP-A-0103033 (COMET MARTINELLI S.R.L.)		
A	DE-A-3111193 (HOBBY-HAND G.M.B.H.)		
A	GB-A-991943 (EDOUARD DURTEF ET CIE)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			D04B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 03 DECEMBER 1990	Examiner VAN GELDER P.A.
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		I : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application F : document cited for other reasons & : member of the same patent family, corresponding document	