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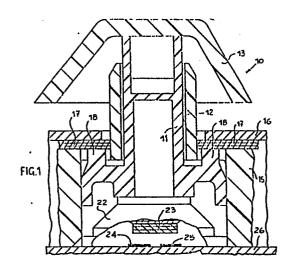
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(54) Contact keyboard and method of its manufacture.

(5) A contact keyboard comprising a plurality of keys (10) each having an actuator (11) movable axially in opposition to the action of an elastic element (22) to effect the connection of parts (23-25) of an electric circuit. The actuators (11) are slidable in guide recesses (12) formed by moulding in a single block (15) of plastics material. Assembly of the actuators, the guide block, the elastic elements and the electric circuit on a supporting plate (16) can be effected automatically. Assembly takes place with the block (15) upside down, on the plate (16). The actuators (12) are moulded in one piece with connecting sprues and are inserted in one operation. The sprues are then removed, the elastic elements (22) are put in place and then a printed circuit board (26) is fitted.





EUROPEAN SEARCH REPORT

EP 83 30 1831

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х	US-A-4 315 114	(MONTI) ine 34 - column 4,	1	B 41 J 5/12
A			2,3,4	
A	US-E- 30 435 * Abstract; fig		1-4	
A	DE-A-2 849 684 * Page 4, lines	 (TRIUMPF WERKE) 7-29; figures 1-3	5	
A	DE-A-2 309 041	(PHILIPS)	-	TECHNICAL FIELDS
A	FR-A-2 379 379 EUROPÄISCHE HANI	 (ANSTALT DELSGESELLSCHAFT)		B 41 J H 03 K G 10 H
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Y : par	CATEGORY OF CITED DOCU ticularly relevant if taken alone ticularly relevant if combined w cument of the same category hnological background n-written disclosure	E : earlier pr after the ith another D : documer L : documer	filing date nt cited in the appi nt cited for other n	ut published on, or