



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
11.12.2002 Bulletin 2002/50

(51) Int Cl.7: **H01H 13/70**

(43) Date of publication A2:
07.03.2001 Bulletin 2001/10

(21) Application number: **00402399.0**

(22) Date of filing: **30.08.2000**

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
 Designated Extension States:
AL LT LV MK RO SI

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(30) Priority: **02.09.1999 JP 24917399**

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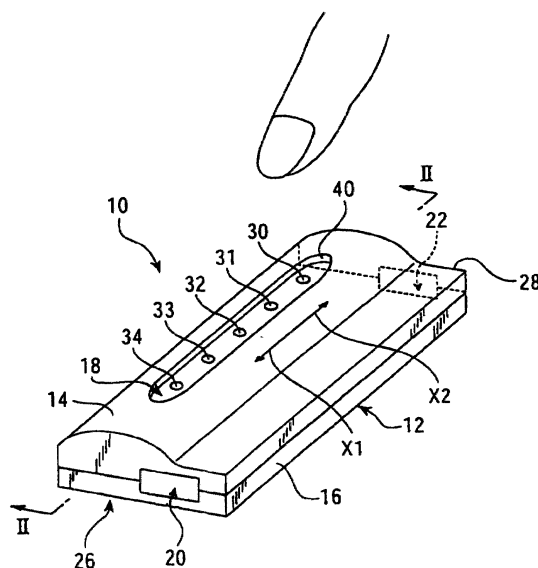
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(54) **Input device employing sheet type switch and method for fabricating thereof**

(57) An input device allowing reduction in the number or parts, thinning, down sizing and easy assembly, and a method for fabricating thereof are provided. The input device for entering a desired command by user's operation has an enclosure 12 having a slit portion 40; a sheet-type switch portion 140 located within the

enclosure 12 so as to be aligned with the slit portion 140; a board 170 located within the enclosure 12; and electrical connection portion 190 which establishes electrical connection between the board 170 and the switch portion 140 by elastic deformation caused by assembly process of the enclosure 12.

FIG. 1





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 40 2399

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.7)
X	EP 0 503 186 A (FLUKE MFG CO JOHN) 16 September 1992 (1992-09-16)	1,2,4-9	H01H13/70
Y	* column 1, line 15 - column 4, line 15; figure 3 *	3,10	
Y	US 4 368 369 A (MATSUMOTO MASATAKA ET AL) 11 January 1983 (1983-01-11) * figures 2,3 *	3,10	
A	GB 2 327 908 A (MOTOROLA GMBH) 10 February 1999 (1999-02-10) * abstract; figure 2 *	1,8	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.7) H01H
Place of search THE HAGUE		Date of completion of the search 11 October 2002	Examiner Findeli, L
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			

EPO FORM 1503 03/92 (P04C01)

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

EP 00 40 2399

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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11-10-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0503186	A	16-09-1992	US 5187647 A	16-02-1993
			EP 0503186 A2	16-09-1992
			JP 4312721 A	04-11-1992
			KR 9405997 B1	30-06-1994
US 4368369	A	11-01-1983	JP 56130025 A	12-10-1981
			JP 56134424 A	21-10-1981
			JP 56143619 A	09-11-1981
			JP 56147326 A	16-11-1981
			DE 3109313 A1	14-01-1982
			GB 2077041 A , B	09-12-1981
GB 2327908	A	10-02-1999	NONE	