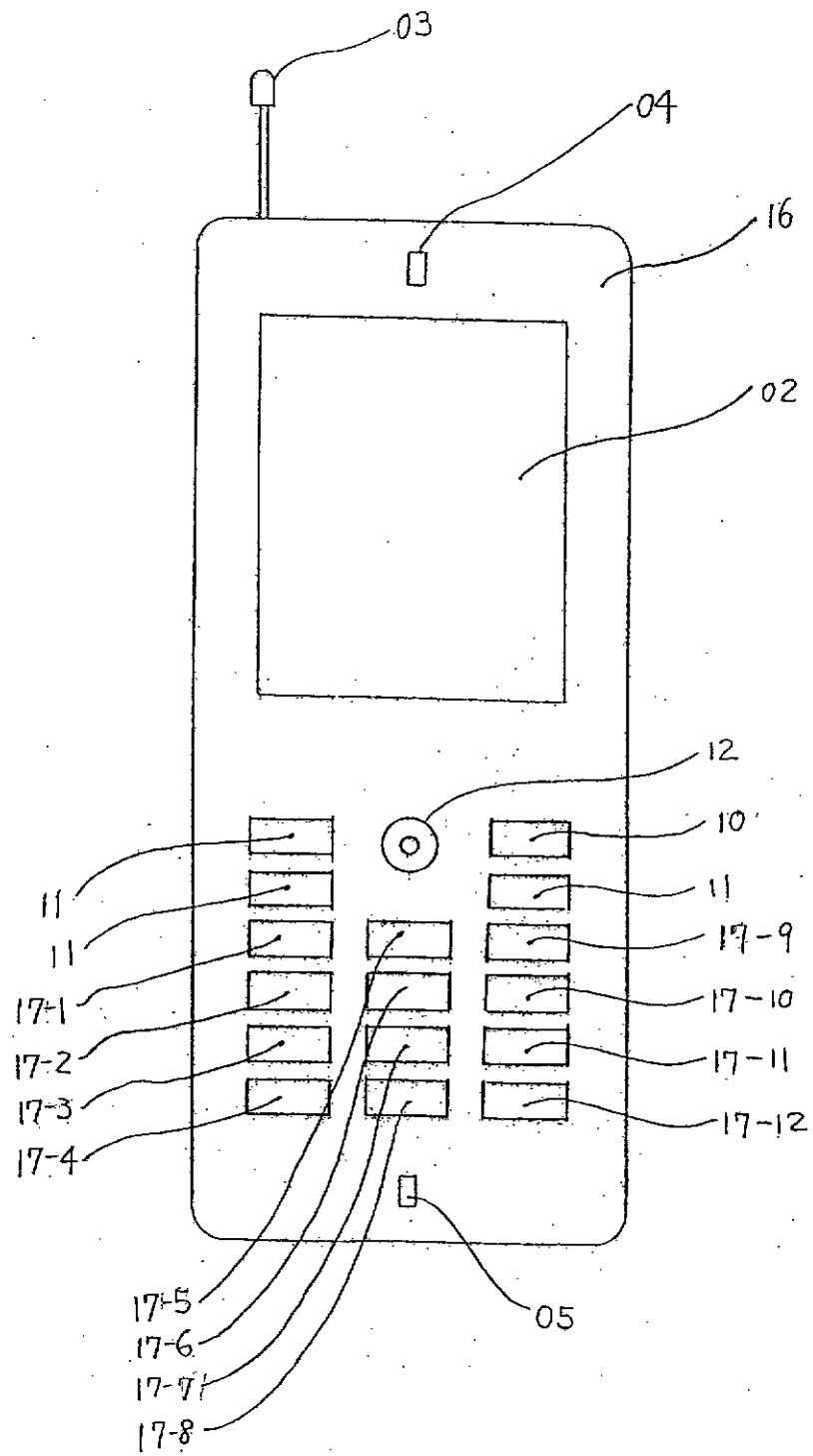


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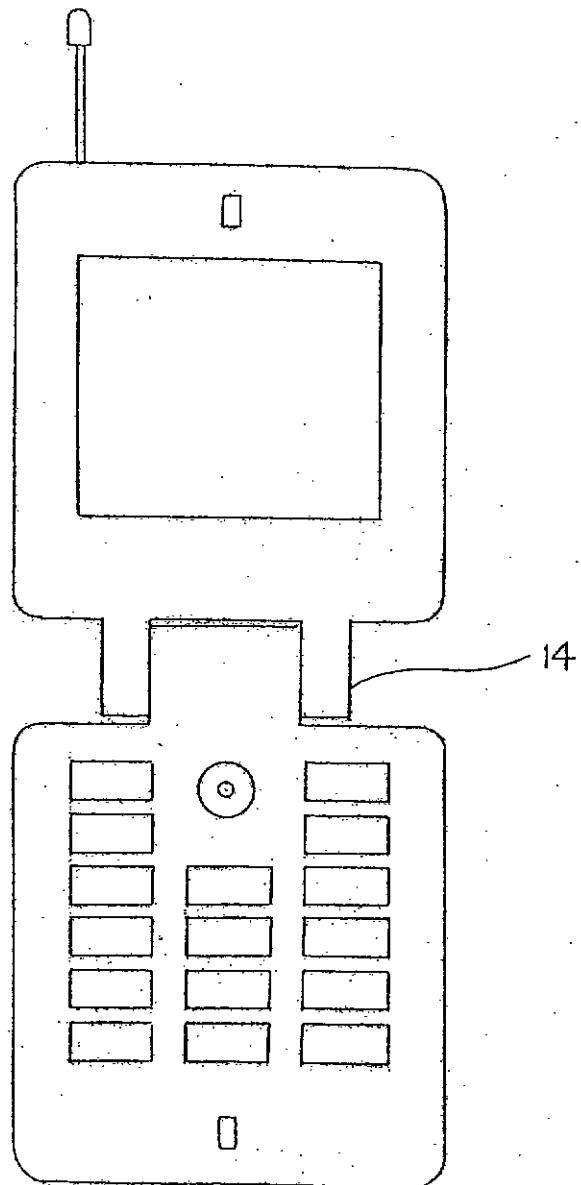
Fig. 1



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Fig. 2



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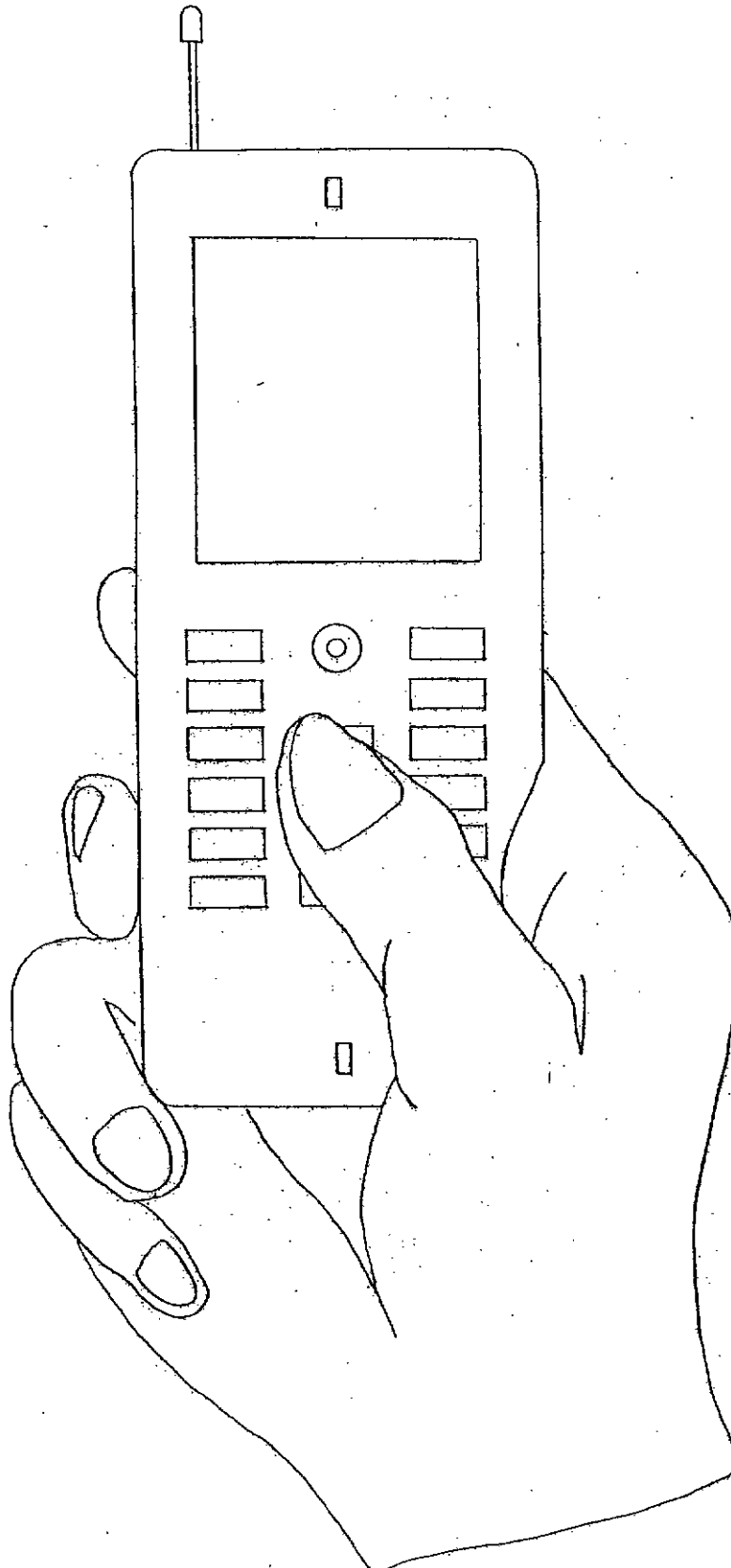
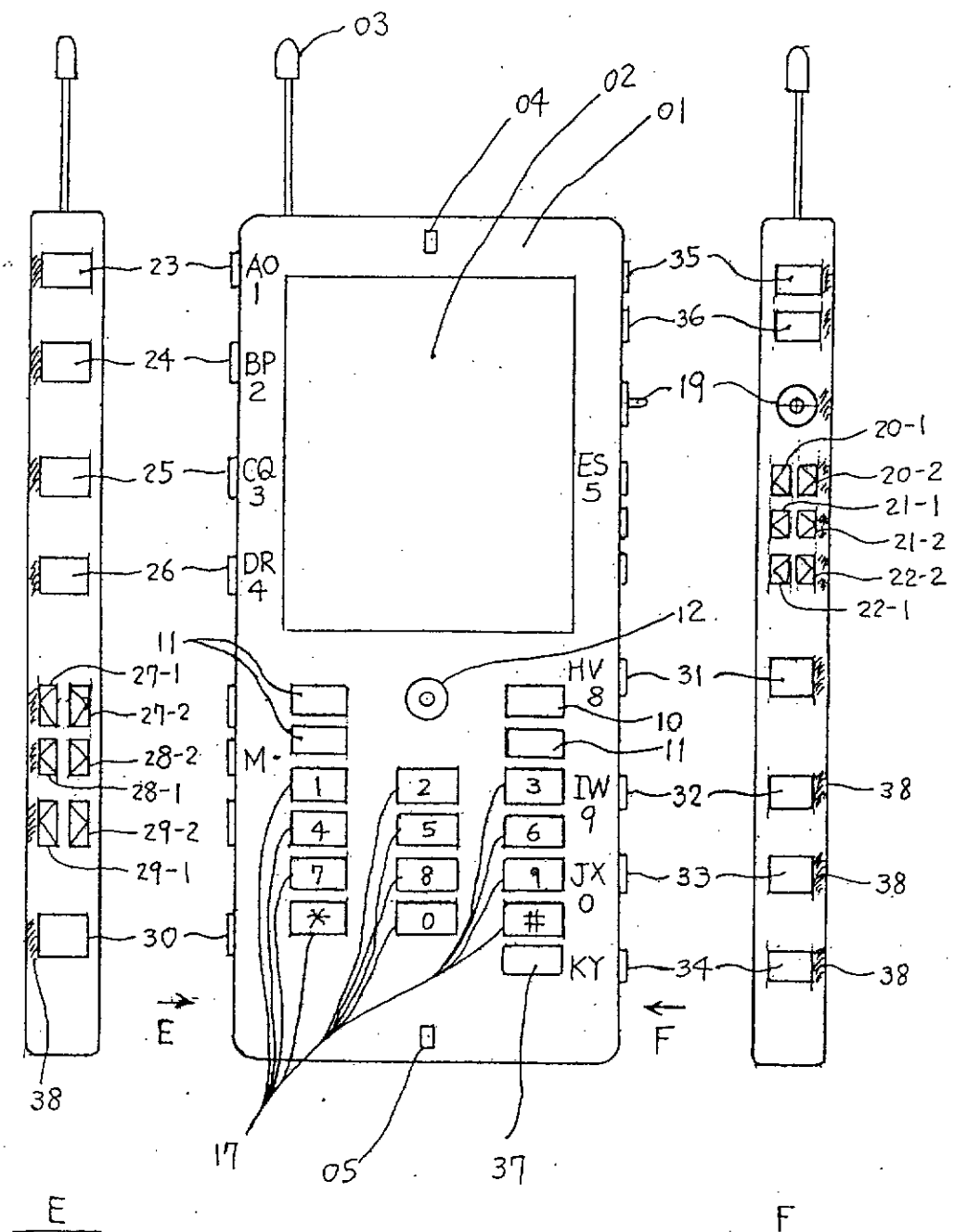


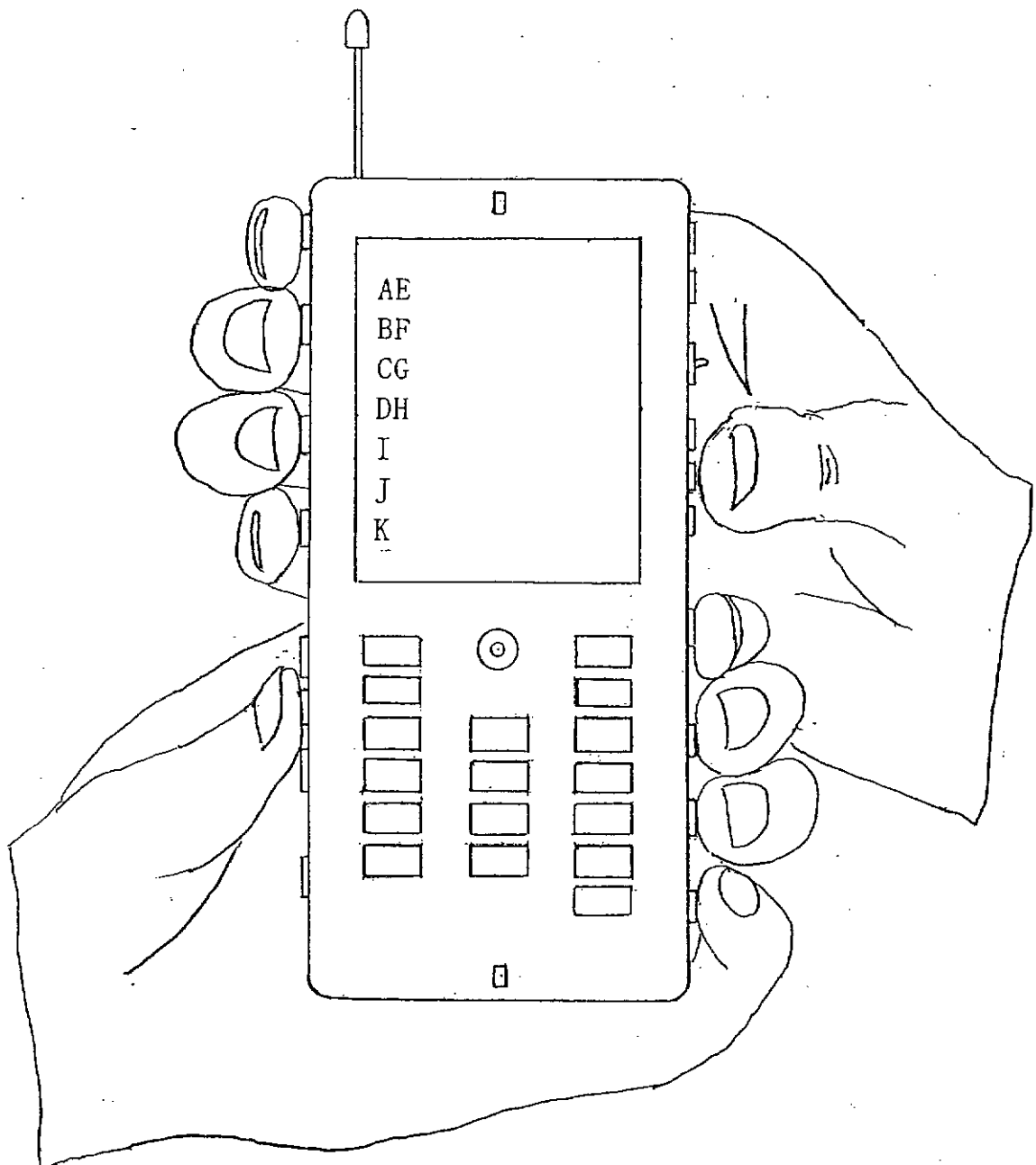
Fig. 4



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Fig. 5



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Fig. 6

1. Combinations of input keys

• While the thumbs push no keys, the remaining fingers of both hands can push: eight characters

The thumbs can push the following combinations of keys,

- Only 20-1, only 20-2, and the combination of 20-1 and 20-2
- Only 21-1, only 21-2, and the combination of 21-1 and 21-2
- Only 22-1, only 22-2, and the combination of 22-1 and 22-2
- Only 27-1, only 27-2, and the combination of 27-1 and 27-2
- Only 28-1, only 28-2, and the combination of 28-1 and 20-8
- Only 29-1, only 29-2, and the combination of 29-1 and 29-2

As a result, eighteen combinations of keys can be inputted by the thumbs. Thus, the calculation of 18 combinations X 11 characters (other three characters by the thumbs and eight characters by the remaining fingers) = 198 characters is established and thus a total of 24 combinations of keys are obtained.

8 characters + 198 characters = 206 characters

2. The number of outputs

English

ABCDEFGHIJKLMNOPQRSTUVWXYZ	(total 26 letters)
abcdefghijklmnopqrstuvwxyz	(total 26 letters)
0123456789	(total 10 characters)
.,?!DEL ENT BackSpace space - @	(total 10 characters) (half size)
Total 72 characters + 72 characters of full size = total 144	
	characters

Native language (example: Japanese)

あいうえお かきくけこ がぎぐげご	
さしすせそ たちつてと ざじずぜぞ だぢづでど	
なにぬねの はひふへほ ばびぶべぼ	
まみむめも やゆよ やゆよつ	
らりるれろ わをん あいうえお。「」、	total 78 characters

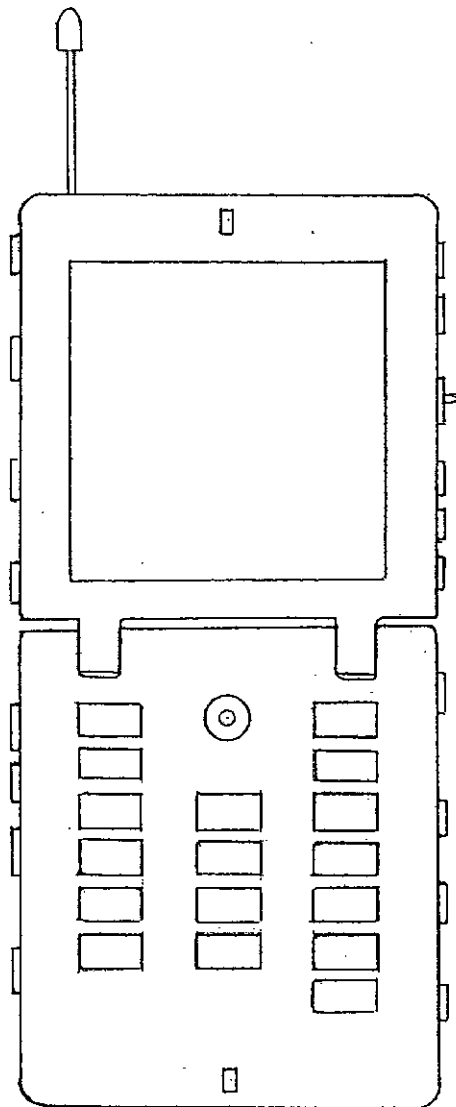
"Katakana" characters of the above Japanese characters

	total 75 characters
0123456789	total 10 characters
.,?!DEL ENT BackSpace space - @	total 10 characters
Total 173 characters	

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Fig. 7



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Fig. 8

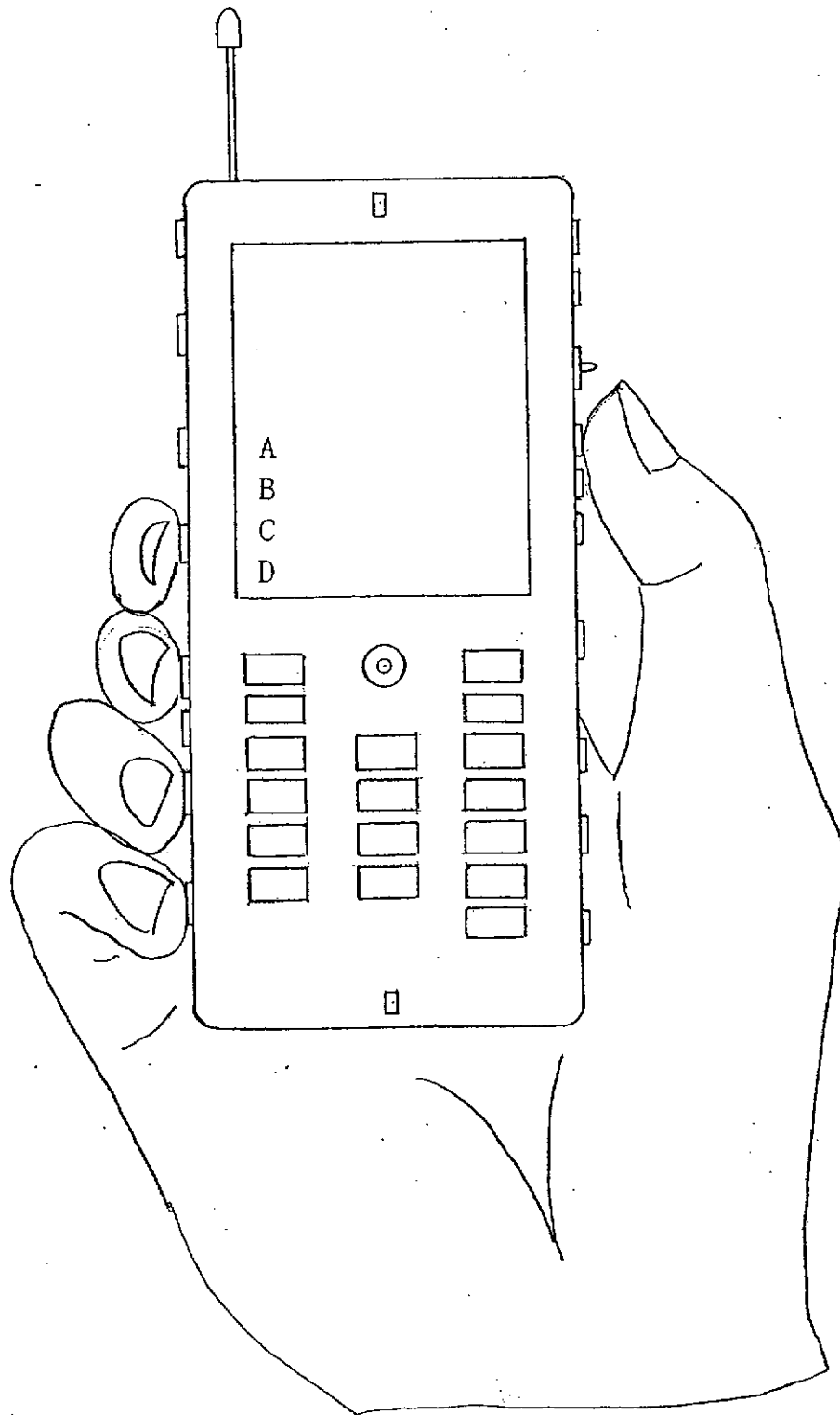


Fig. 9

1. Combinations of input keys

Key combinations inputted by the thumbs are as follows.

- The thumbs push no keys.
- Only 20-1, only 20-2, and the combination of 20-1 and 20-2
- Only 21-1, only 21-2, and the combination of 21-1 and 21-2
- Only 22-1, only 22-2, and the combination of 22-1 and 22-2

As a result, ten combinations of keys can be inputted by the thumbs. Thus, the calculation of 10 combinations X 4 characters (other four characters by the remaining fingers) = 40 characters (types) is established.

• Mode selector switches 35 and 36 provide six combinations of keys. Thus, a total of 40 characters X 6 combinations = 240 characters (types) can be inputted.

2. The number of outputs

English

ABCDEFGHIJKLMNOPQRSTUVWXYZ	(total 26 letters)
abcdefghijklmnopqrstuvwxyz	(total 26 letters)
0123456789	(total 10 characters)
.,?!DEL ENT BackSpace space - @	(total 10 characters) (half size)
Total 72 characters + 72 characters of full size = total 144	
	characters

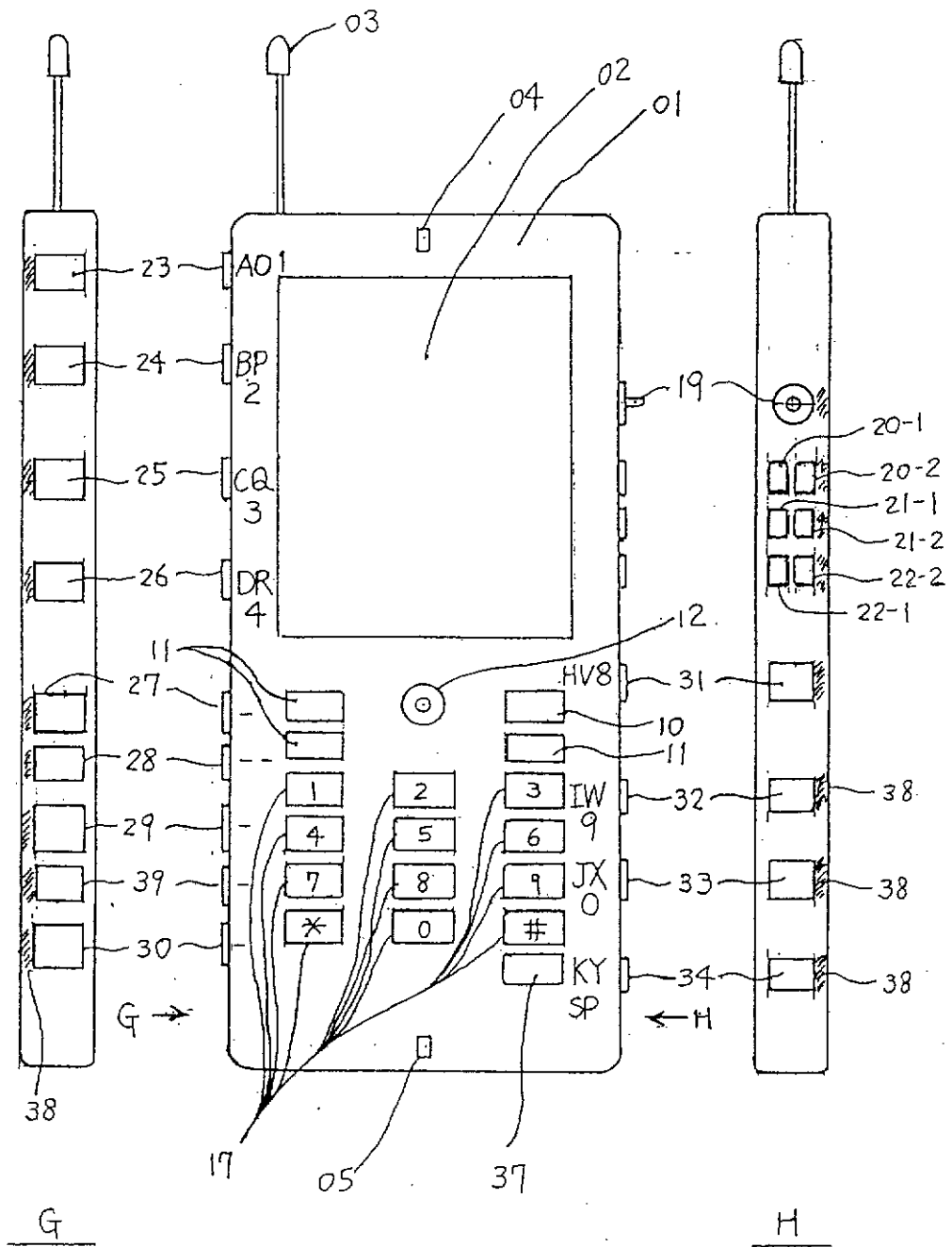
Native language (example: Japanese)

あいうえお かきくけこ がぎぐげご	
さしすせそ たちつてと ざじずぜぞ だぢづでど	
なにぬねの はひふへほ ばびぶべぼ	
まみむめも やゆよ やゆよっ	
らりるれろ わをん あいうえお。「」、	total 78 characters
"Katakana" characters of the above Japanese	
characters (full size)	total 75 characters
0123456789 (half size and full size)	total 20 characters
.,?!DEL ENT BackSpace space - @	total 10 characters
Total 183 characters	

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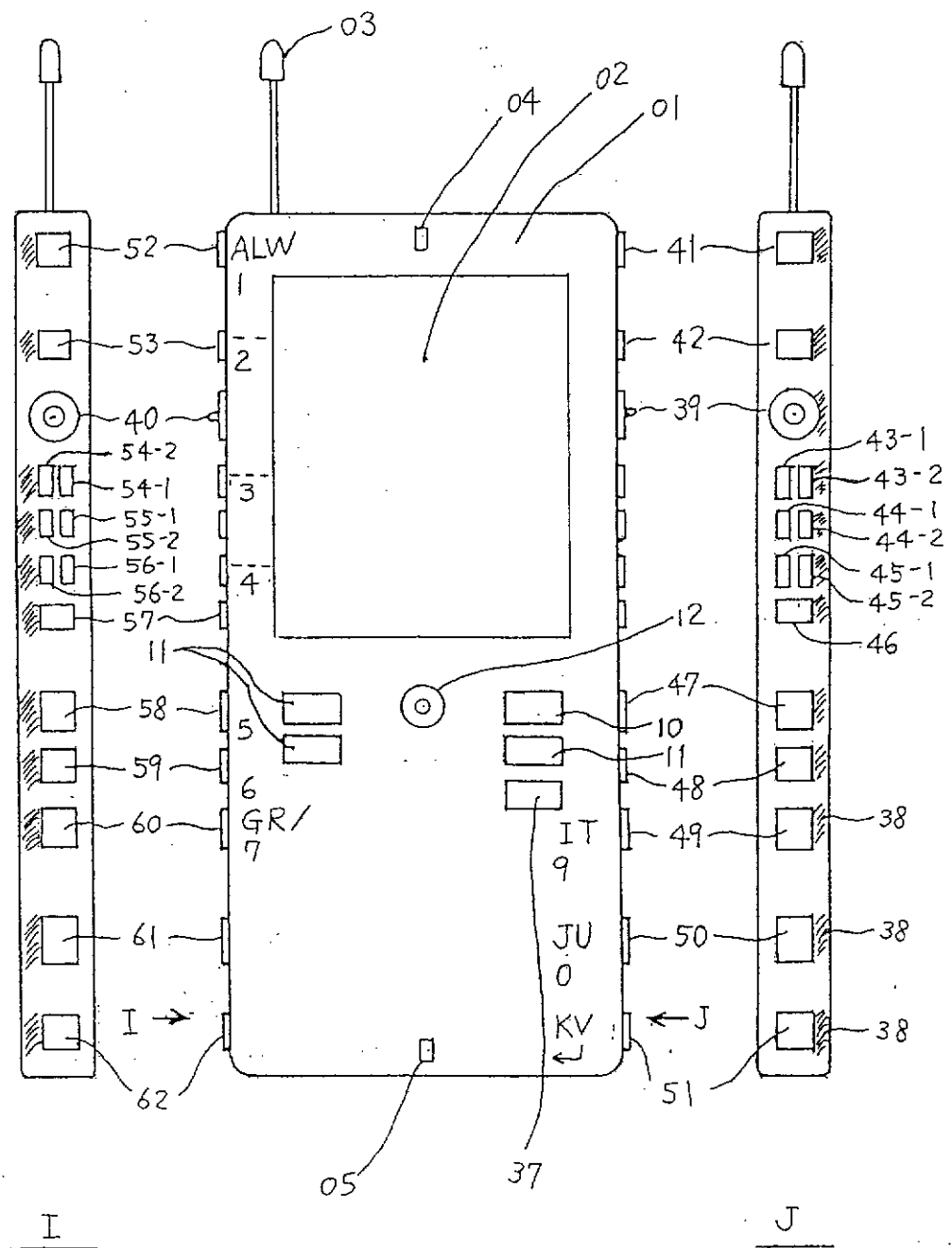
Fig. 10



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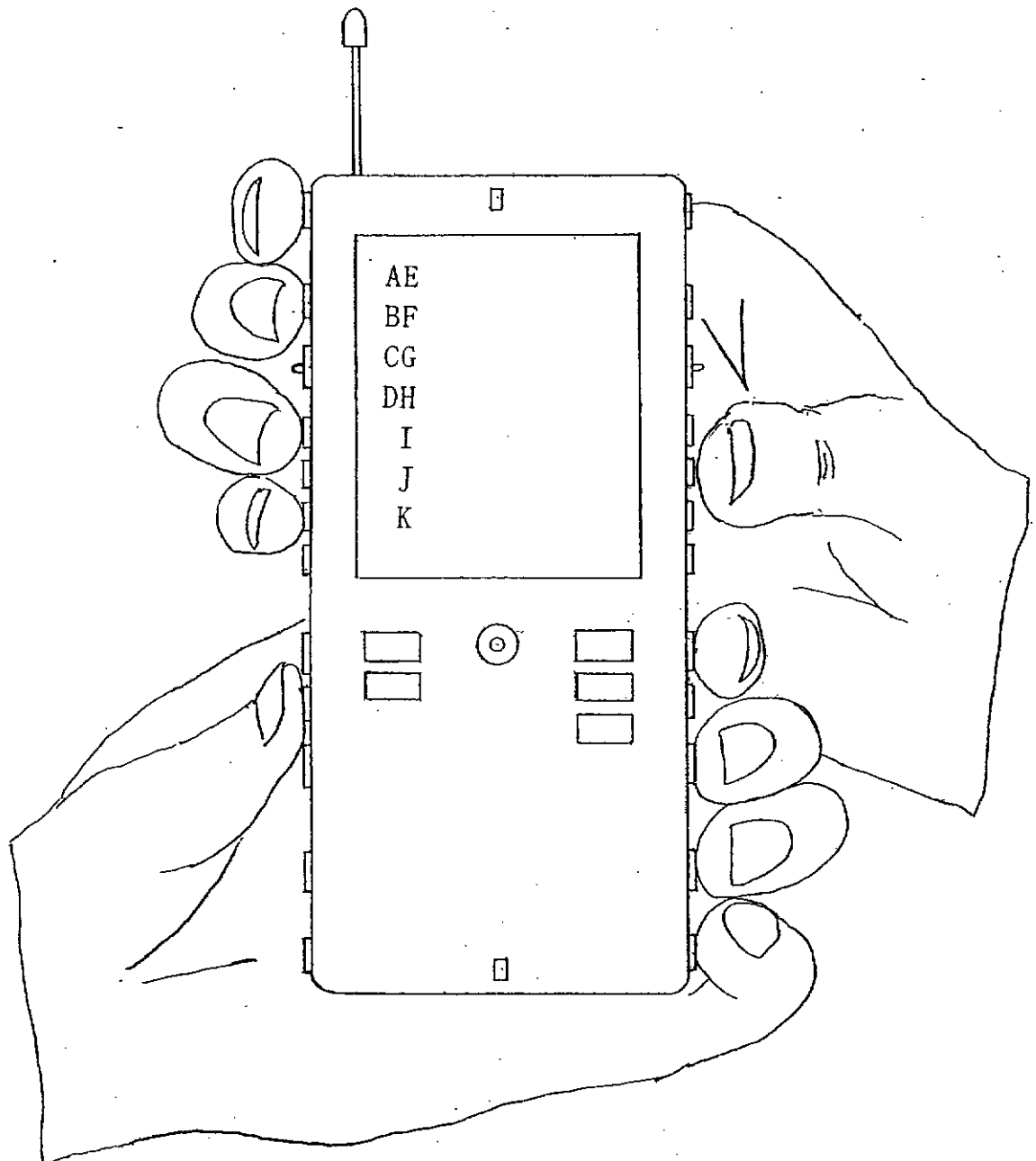
Fig. 11



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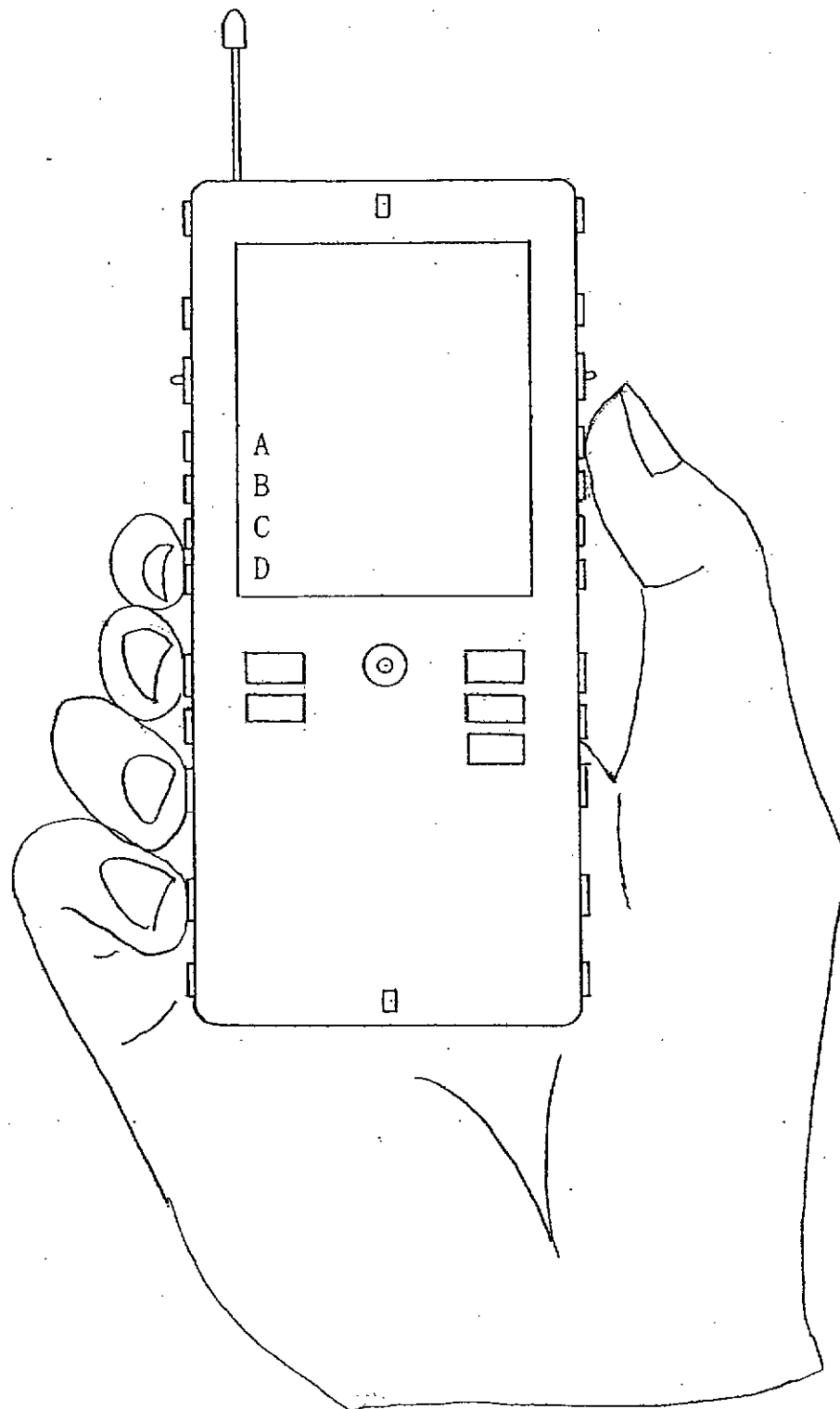
Fig. 12



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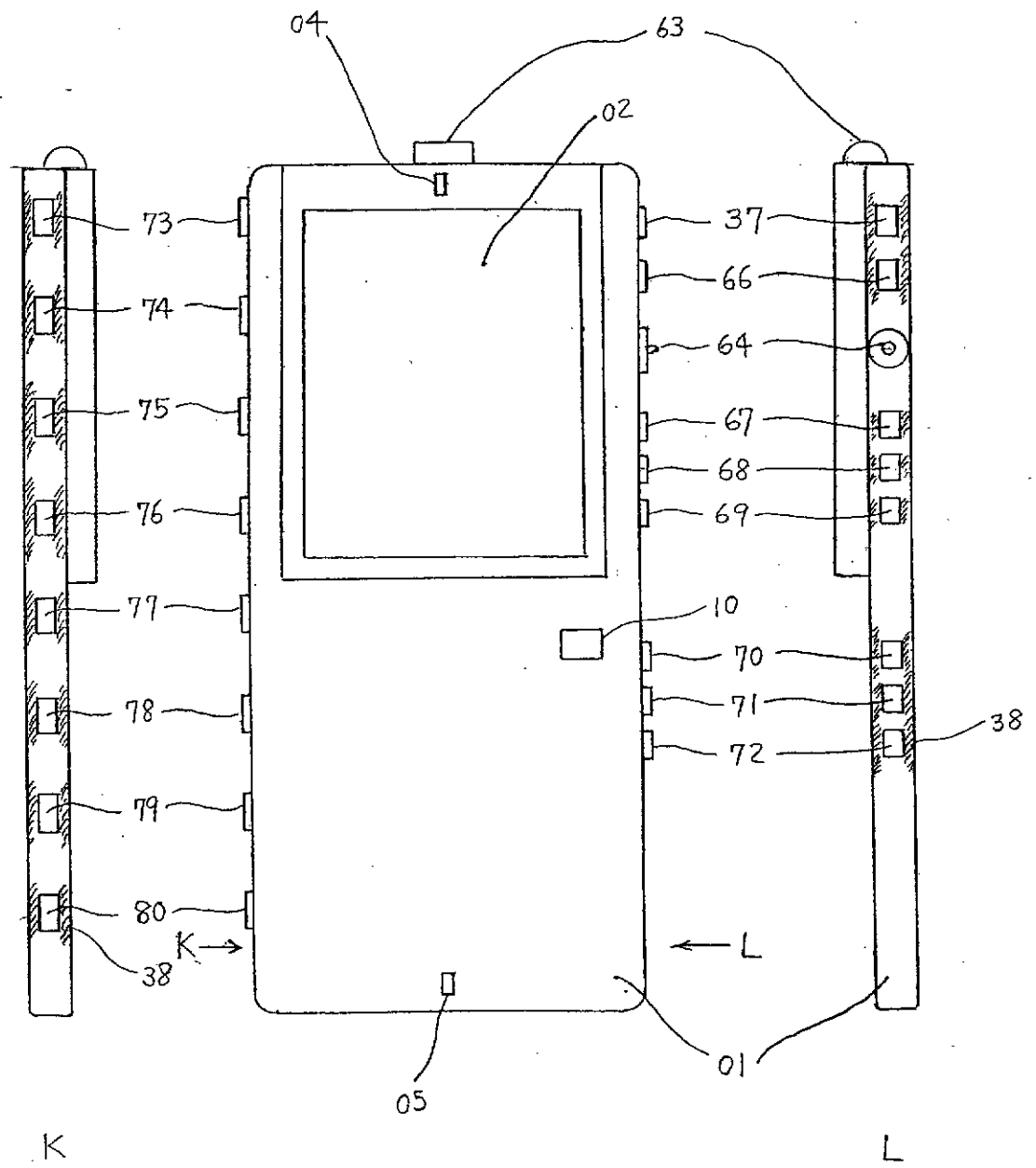
Fig. 13



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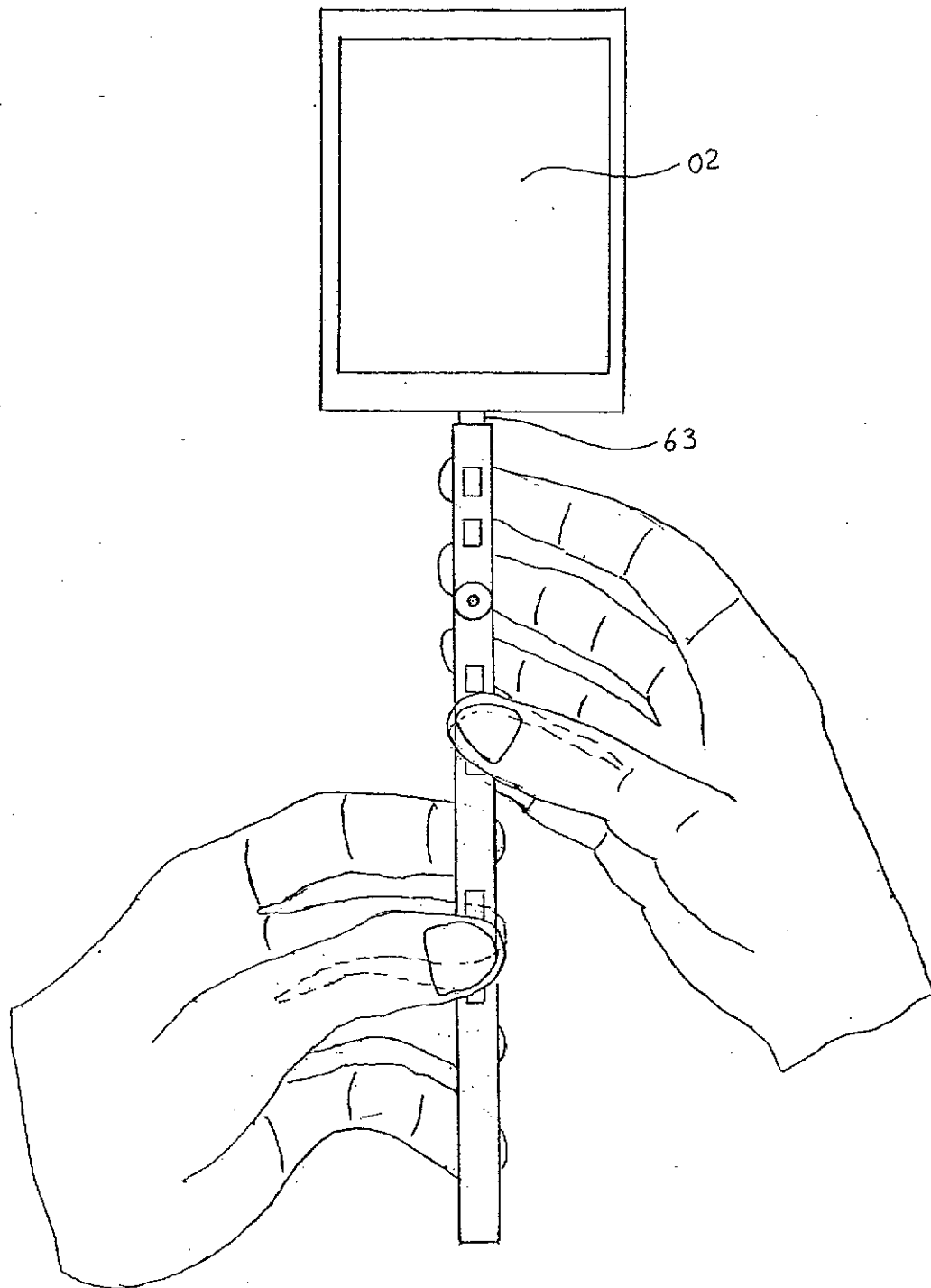
Fig. 14



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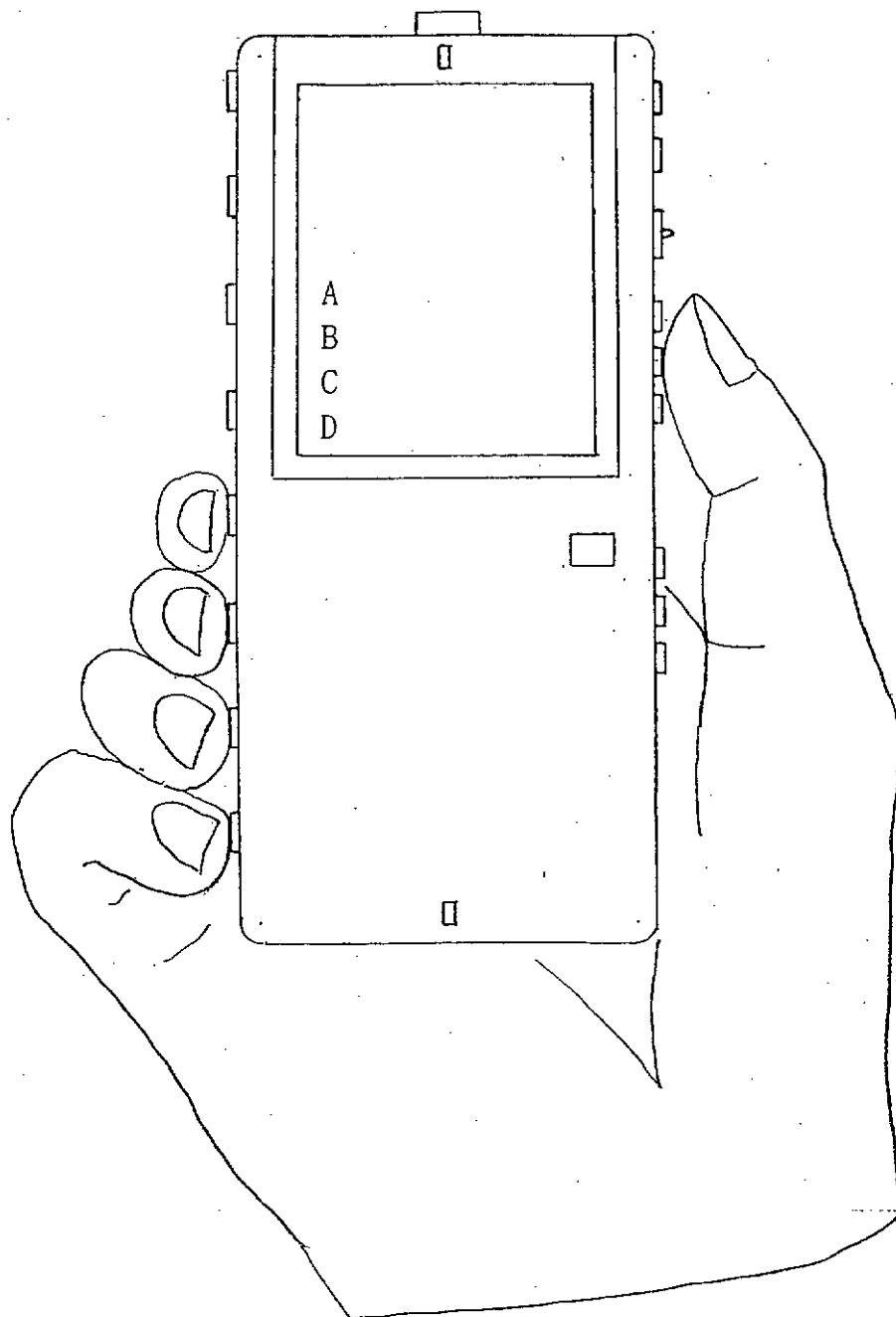
Fig. 15



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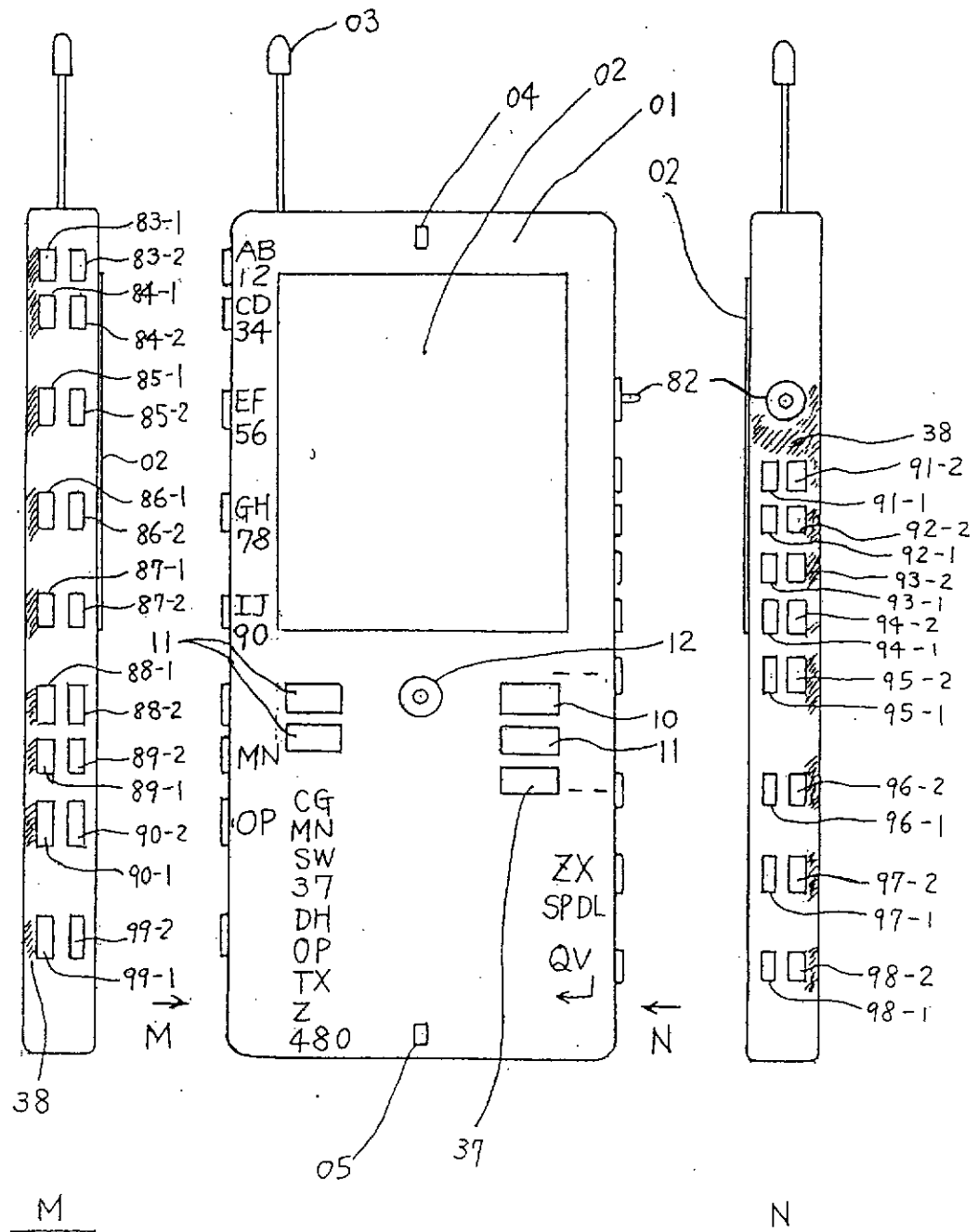
Fig. 16



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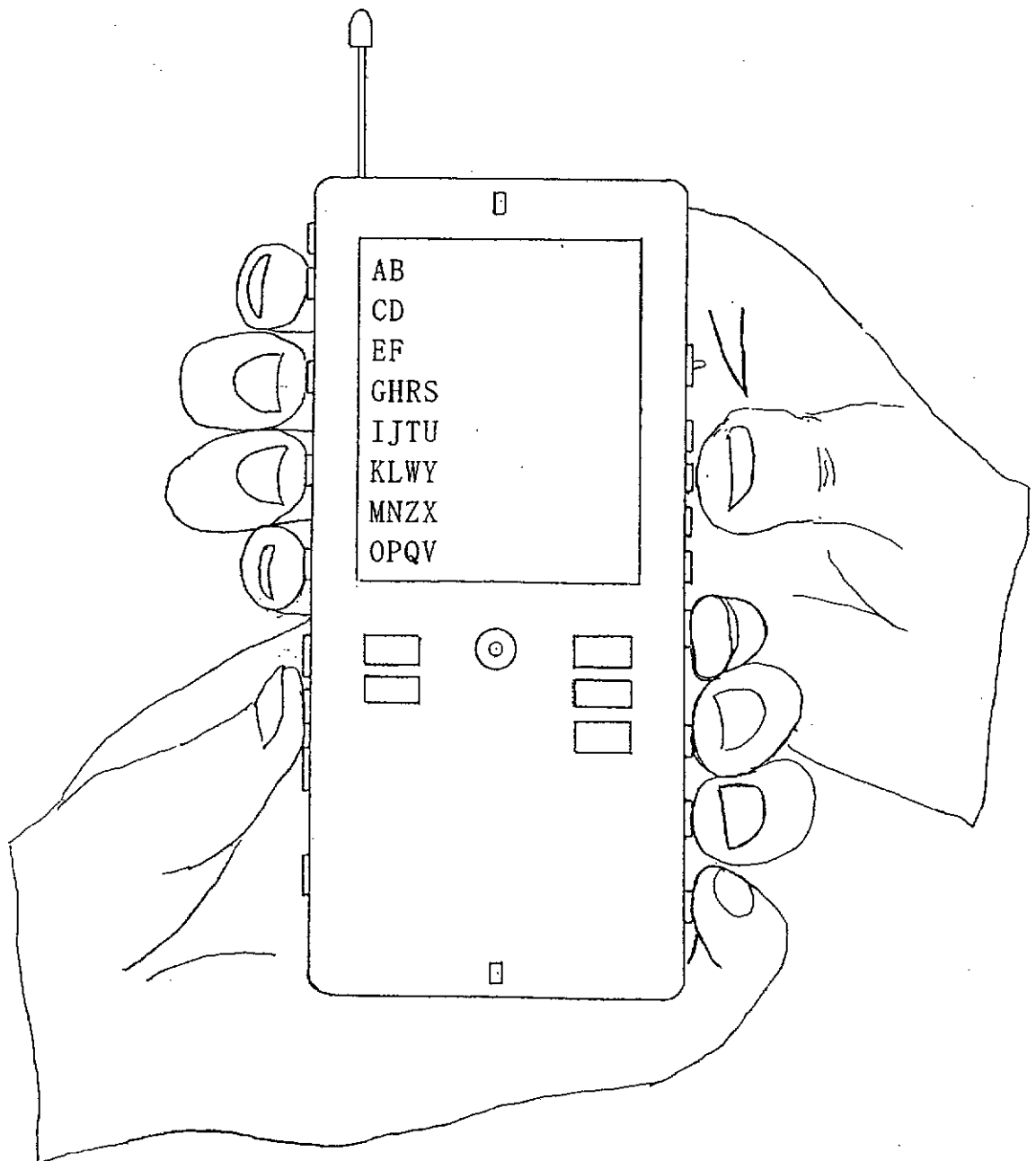
Fig. 17



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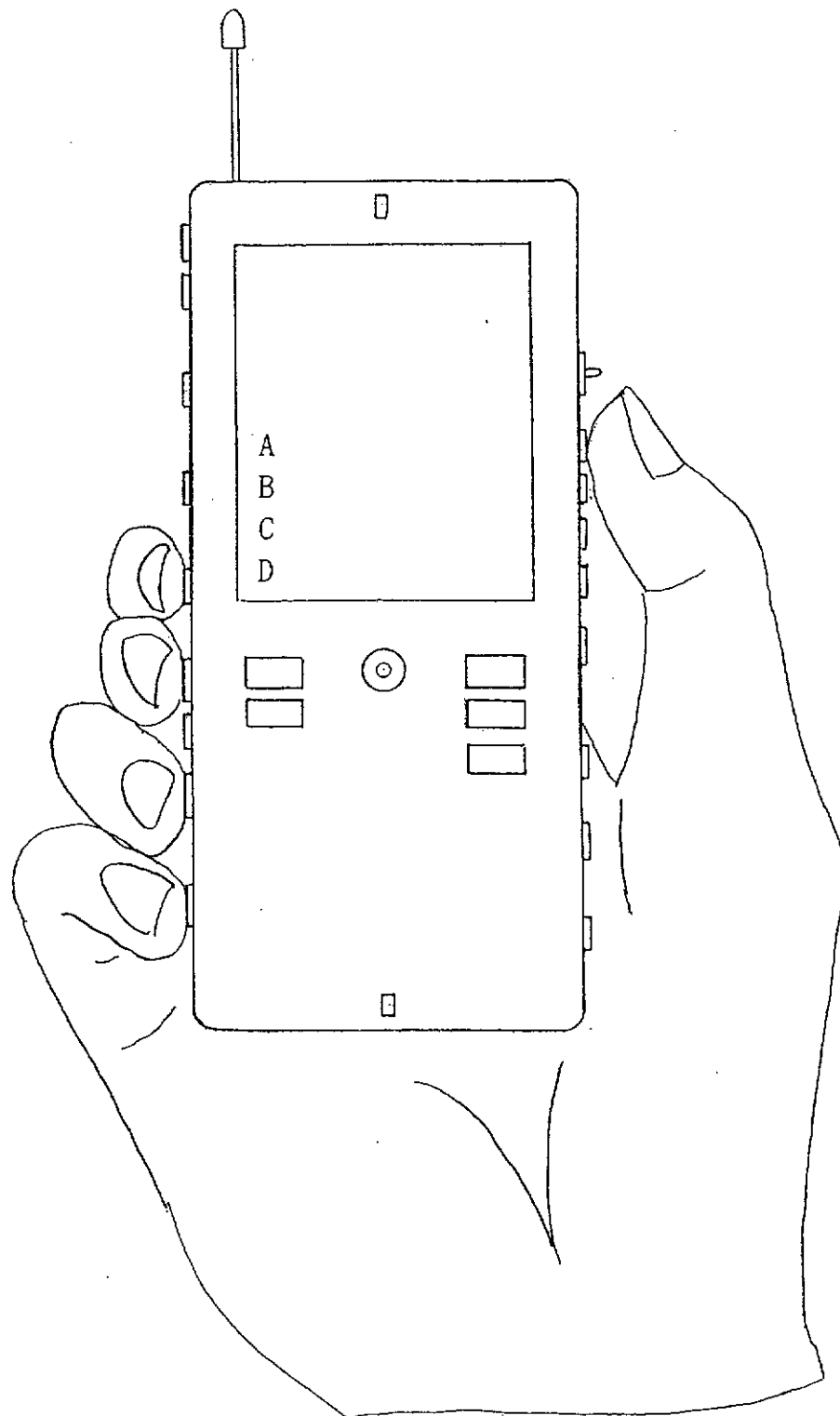
Fig. 18



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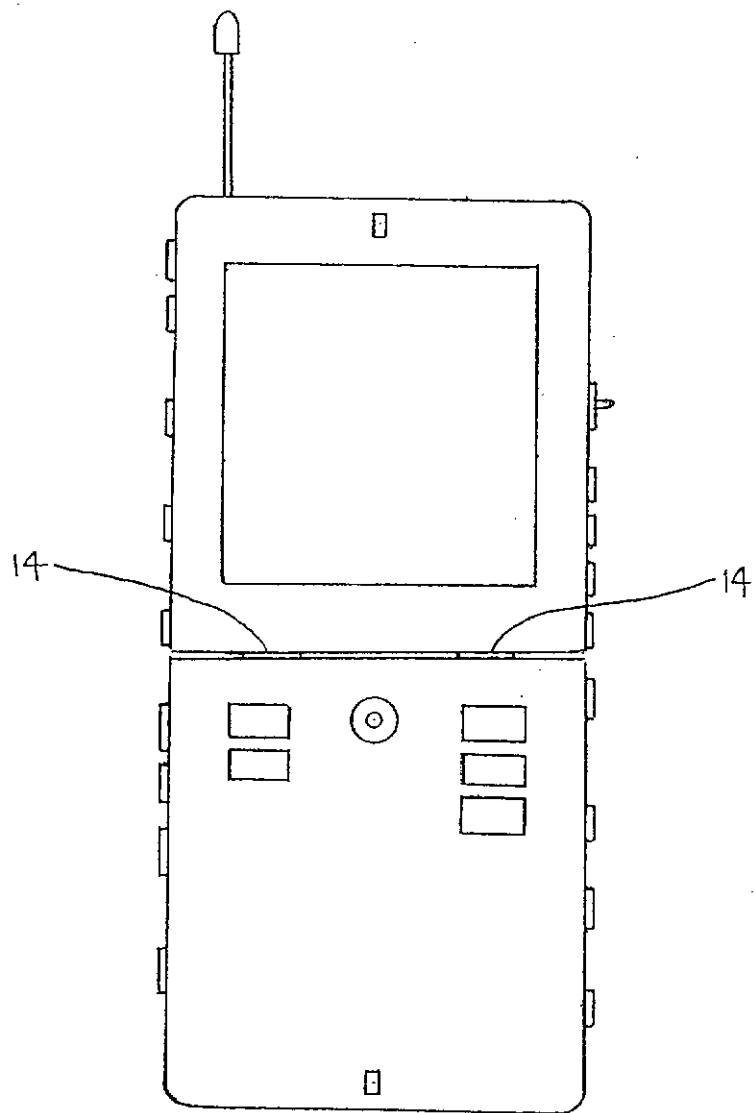
Fig. 19



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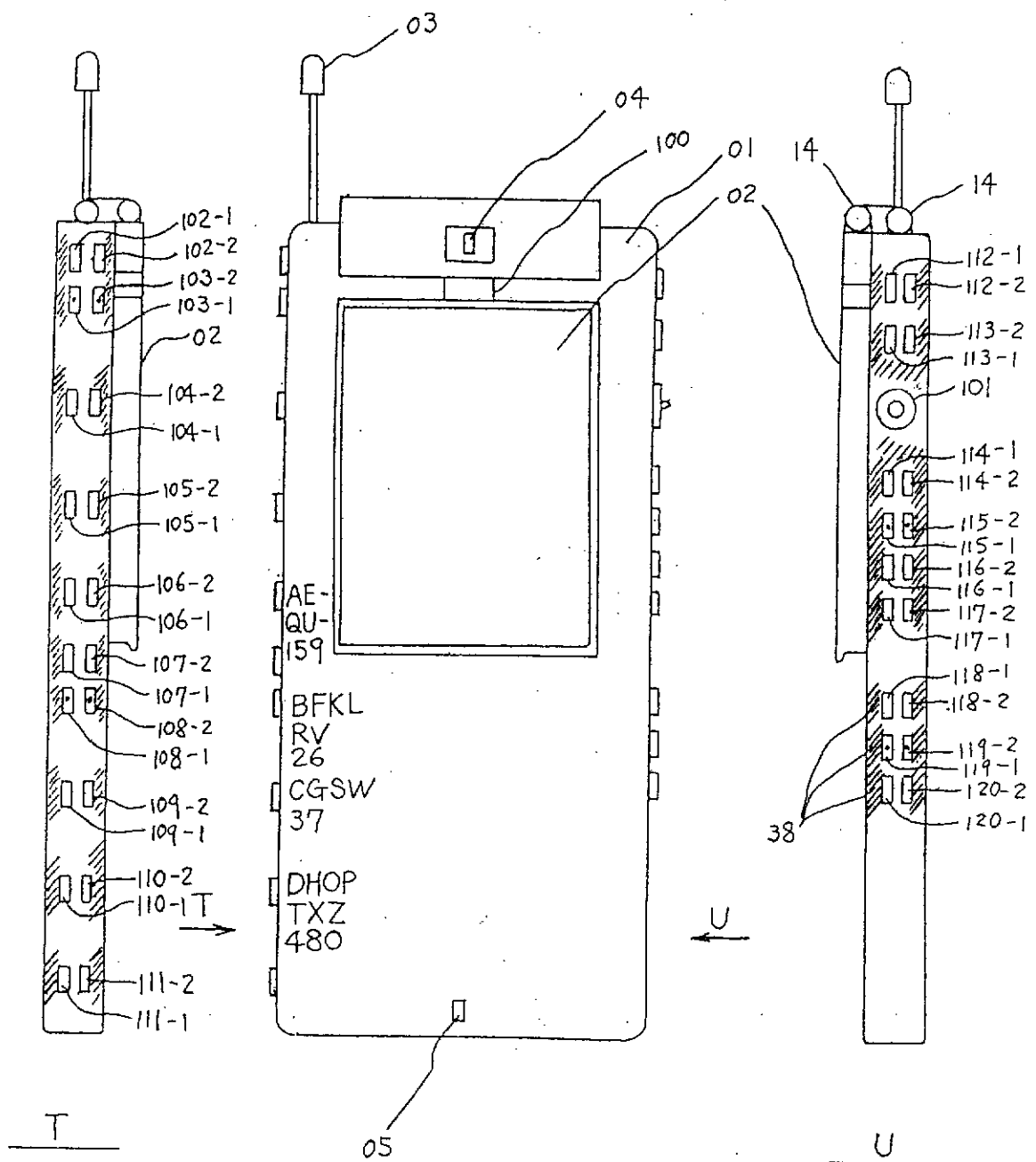
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Fig. 20



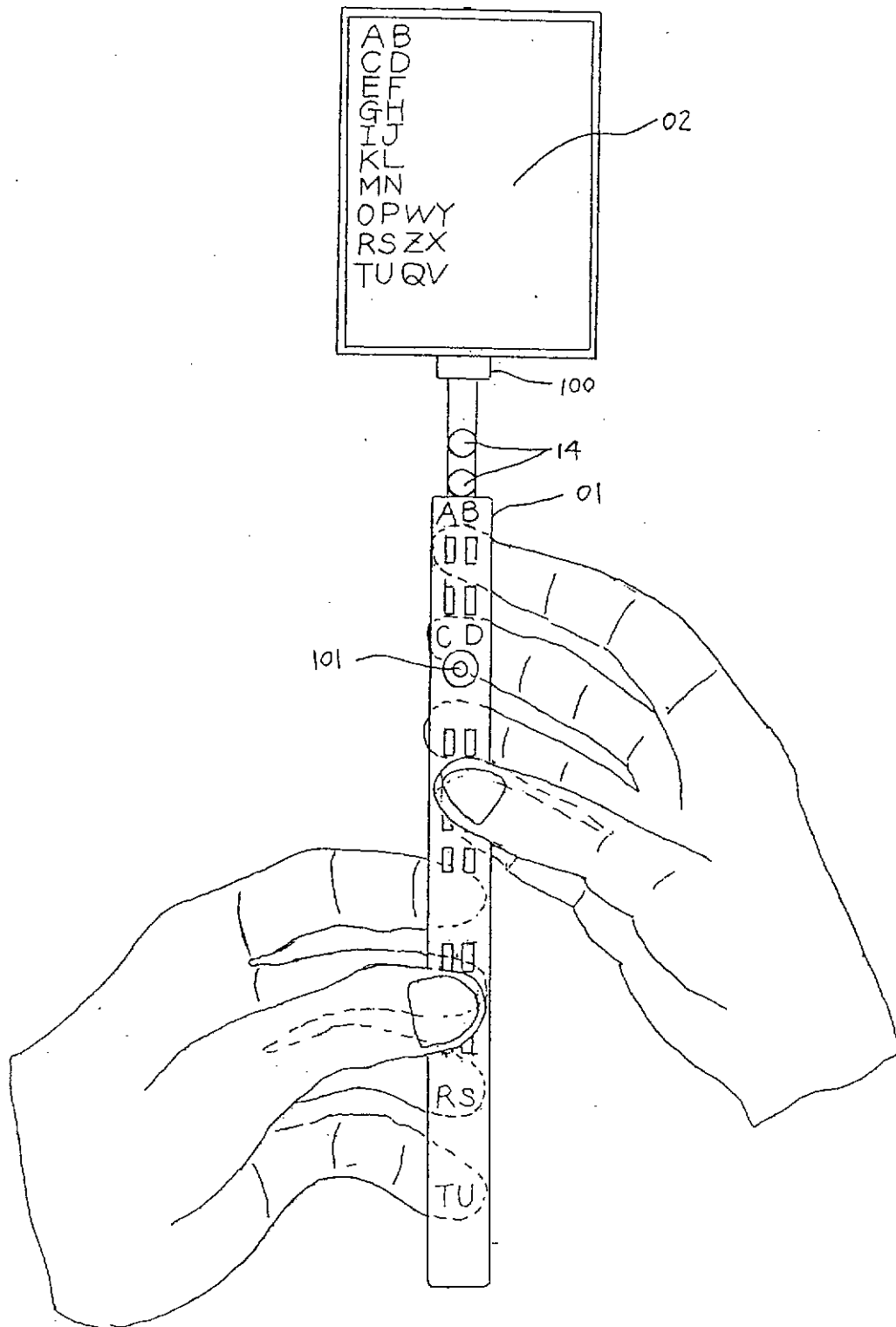
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Fig. 21



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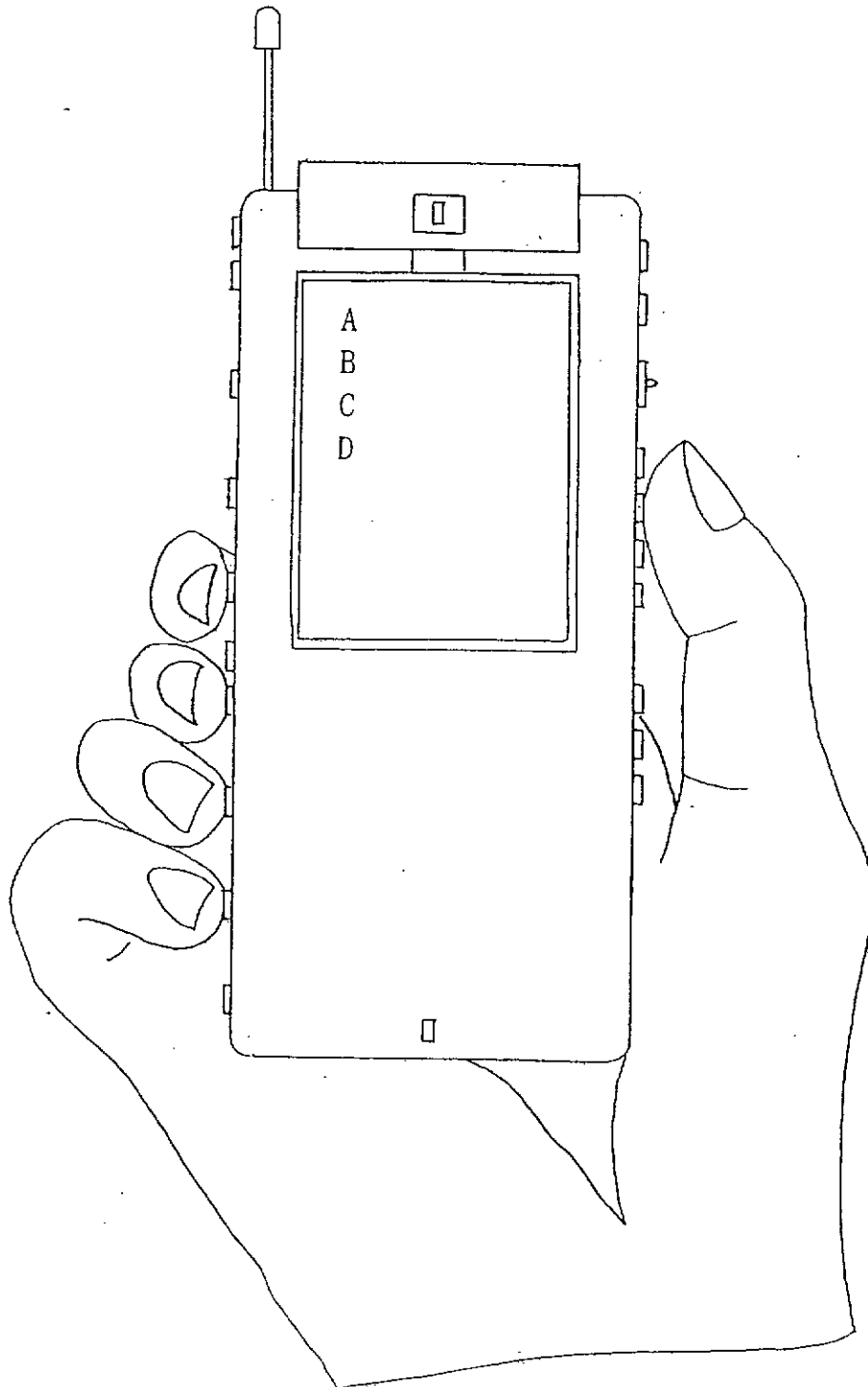
Fig. 22



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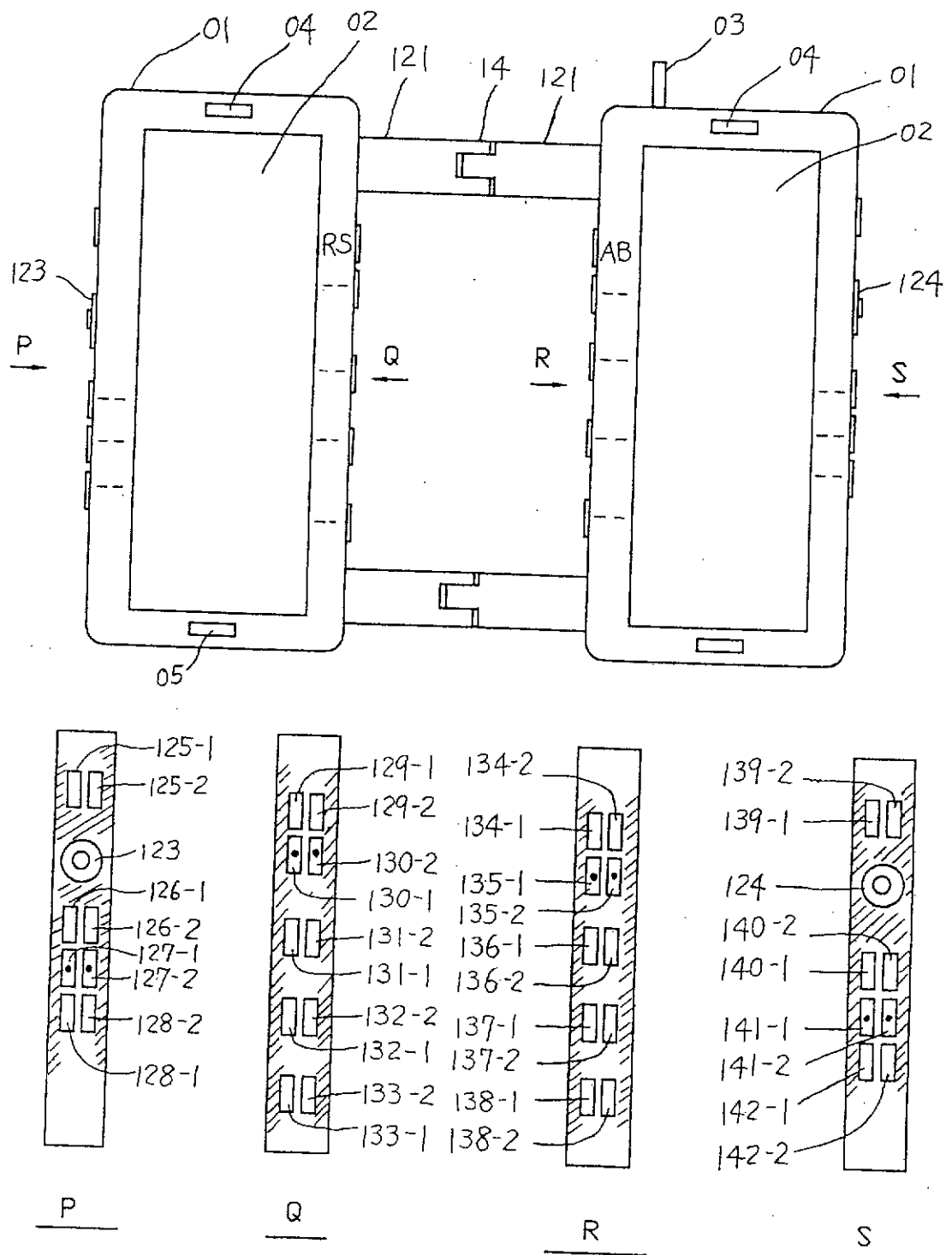
Fig. 23



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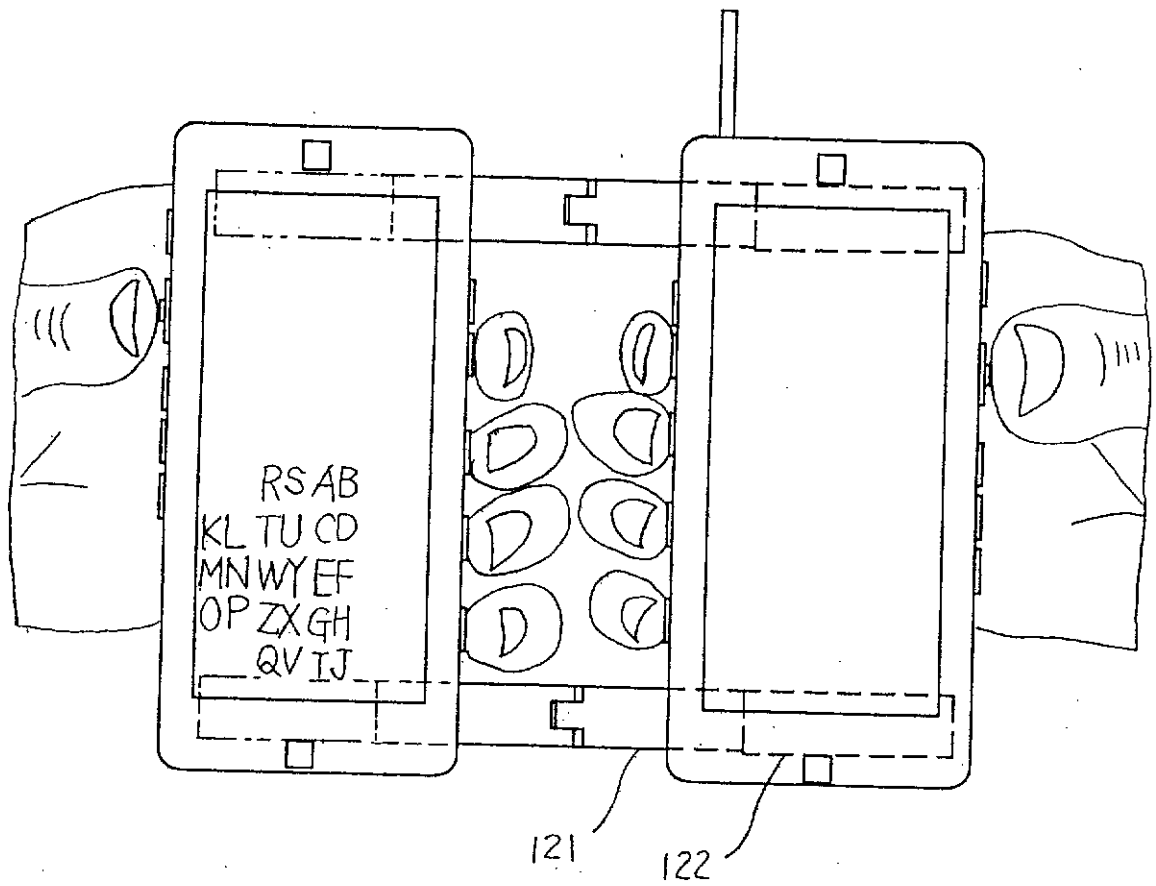
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Fig. 24



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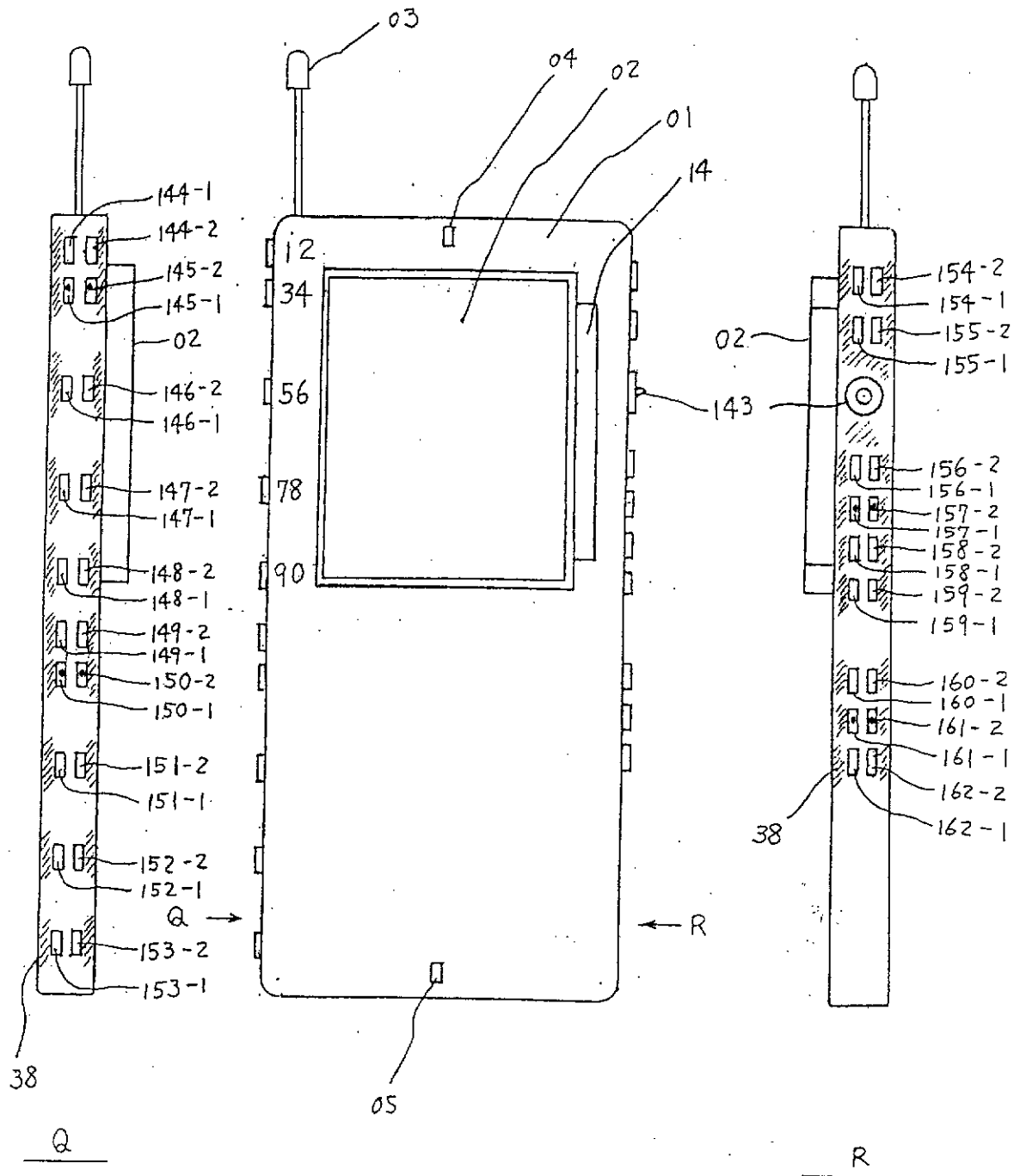
F i g . 2 5



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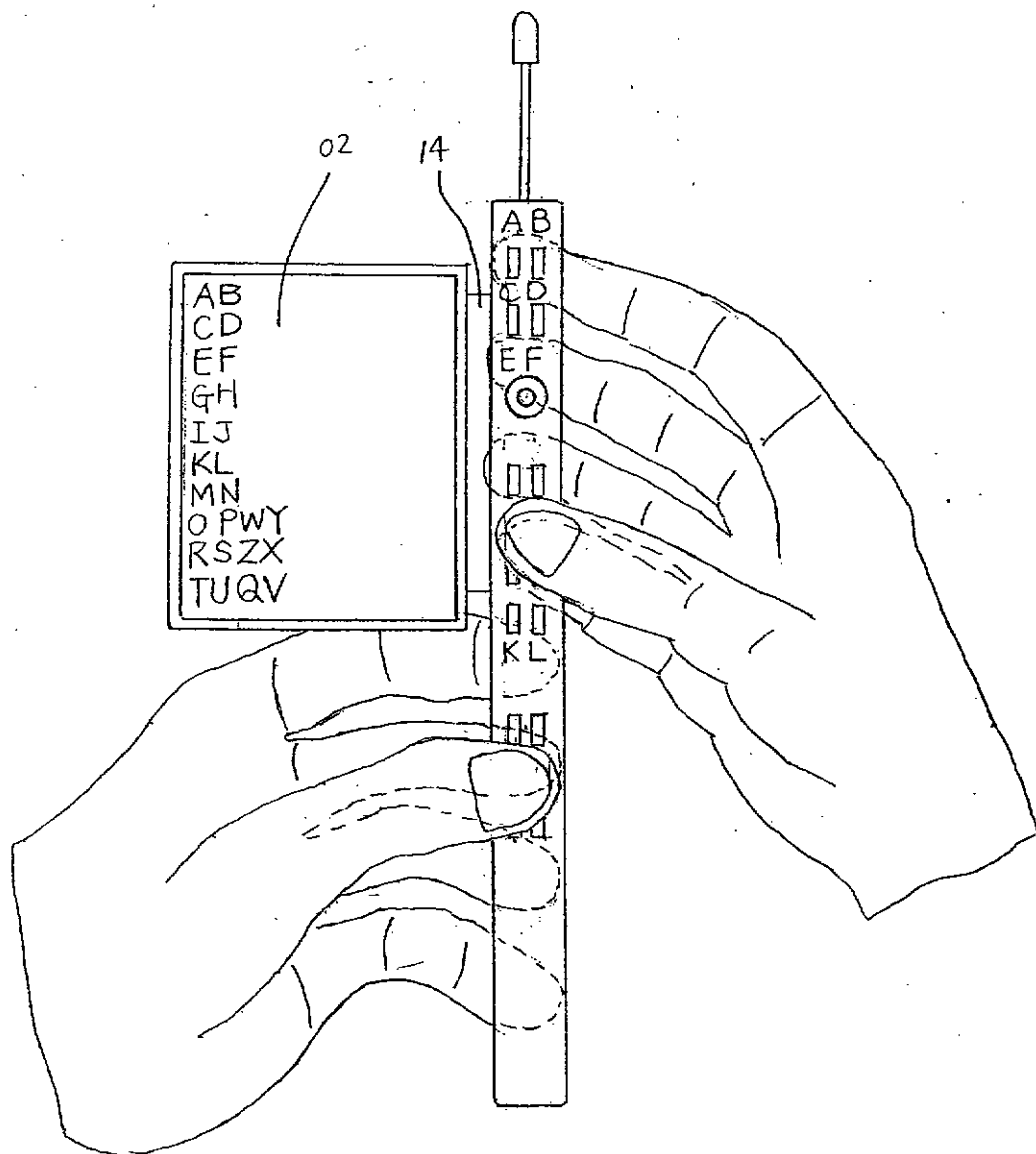
Fig. 26



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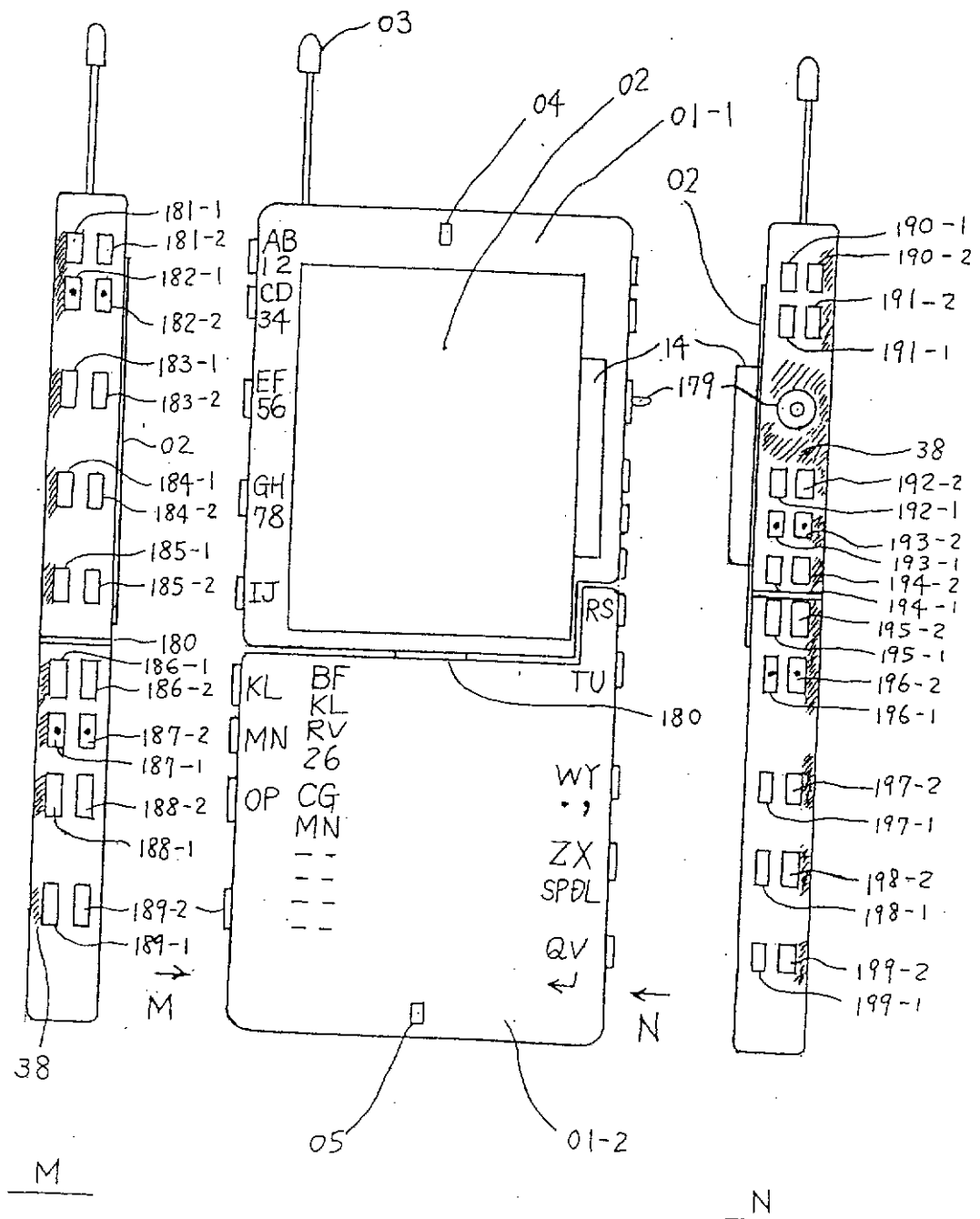
Fig. 27



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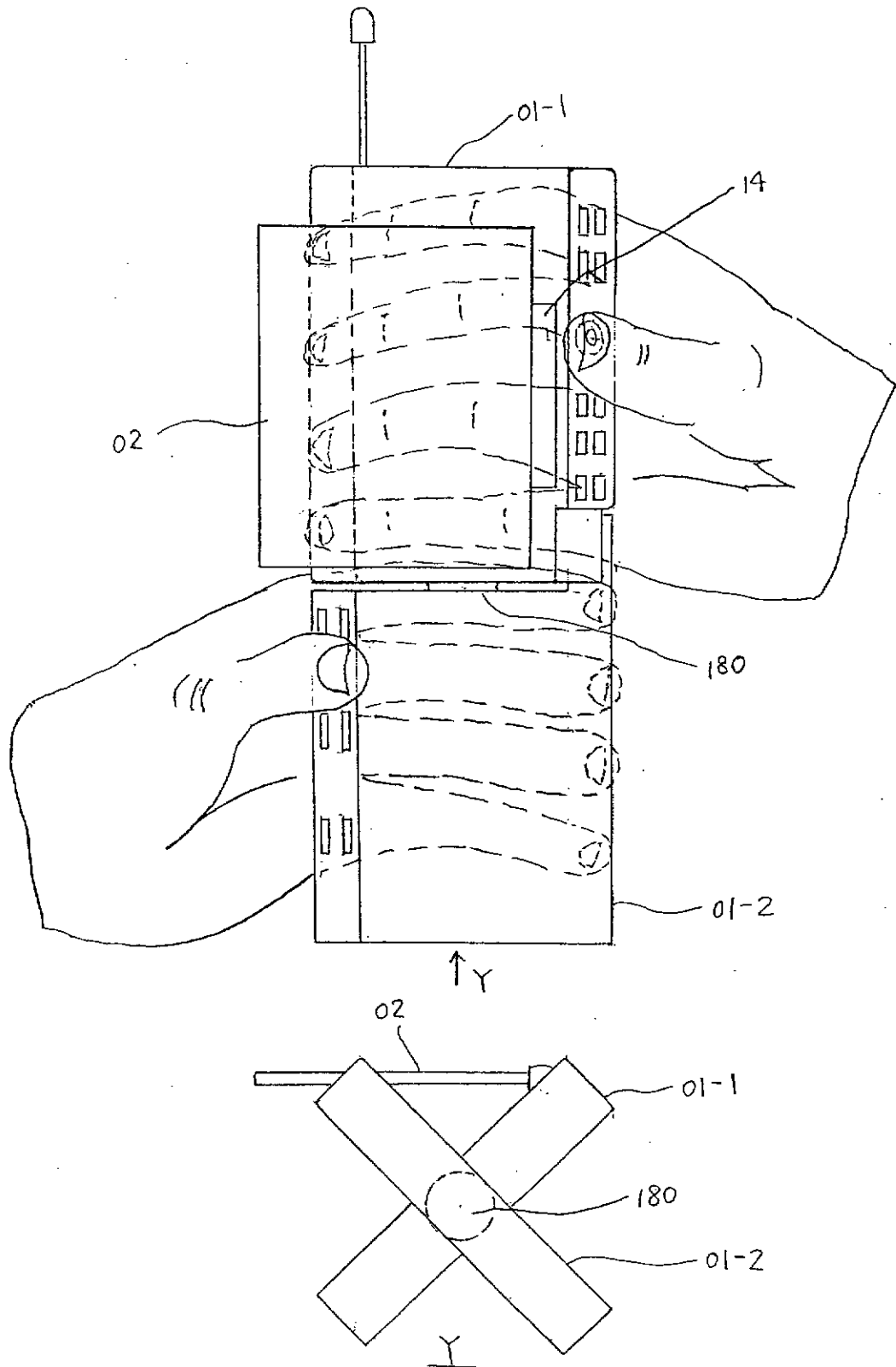
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Fig. 28



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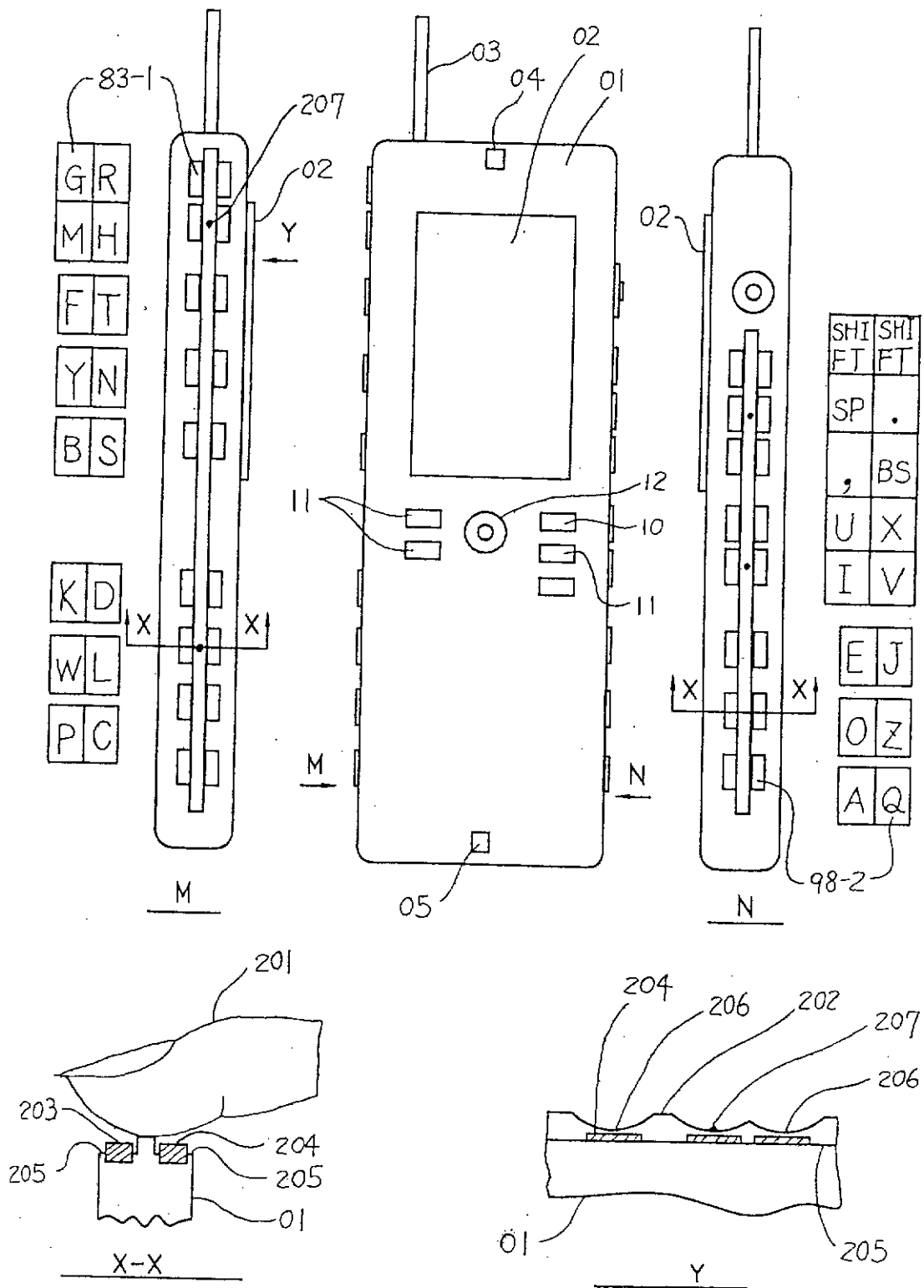
Fig. 29



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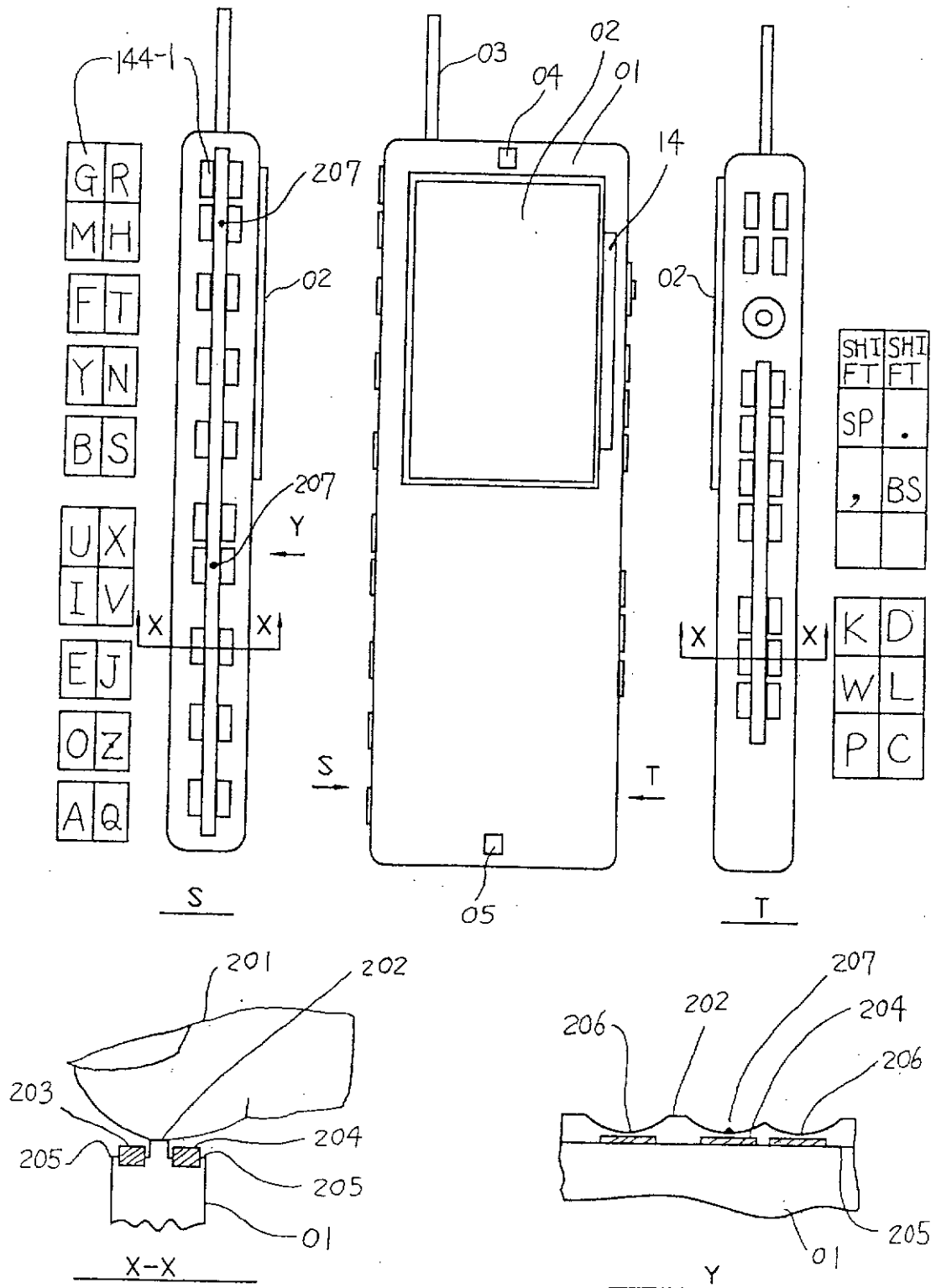
Fig. 30



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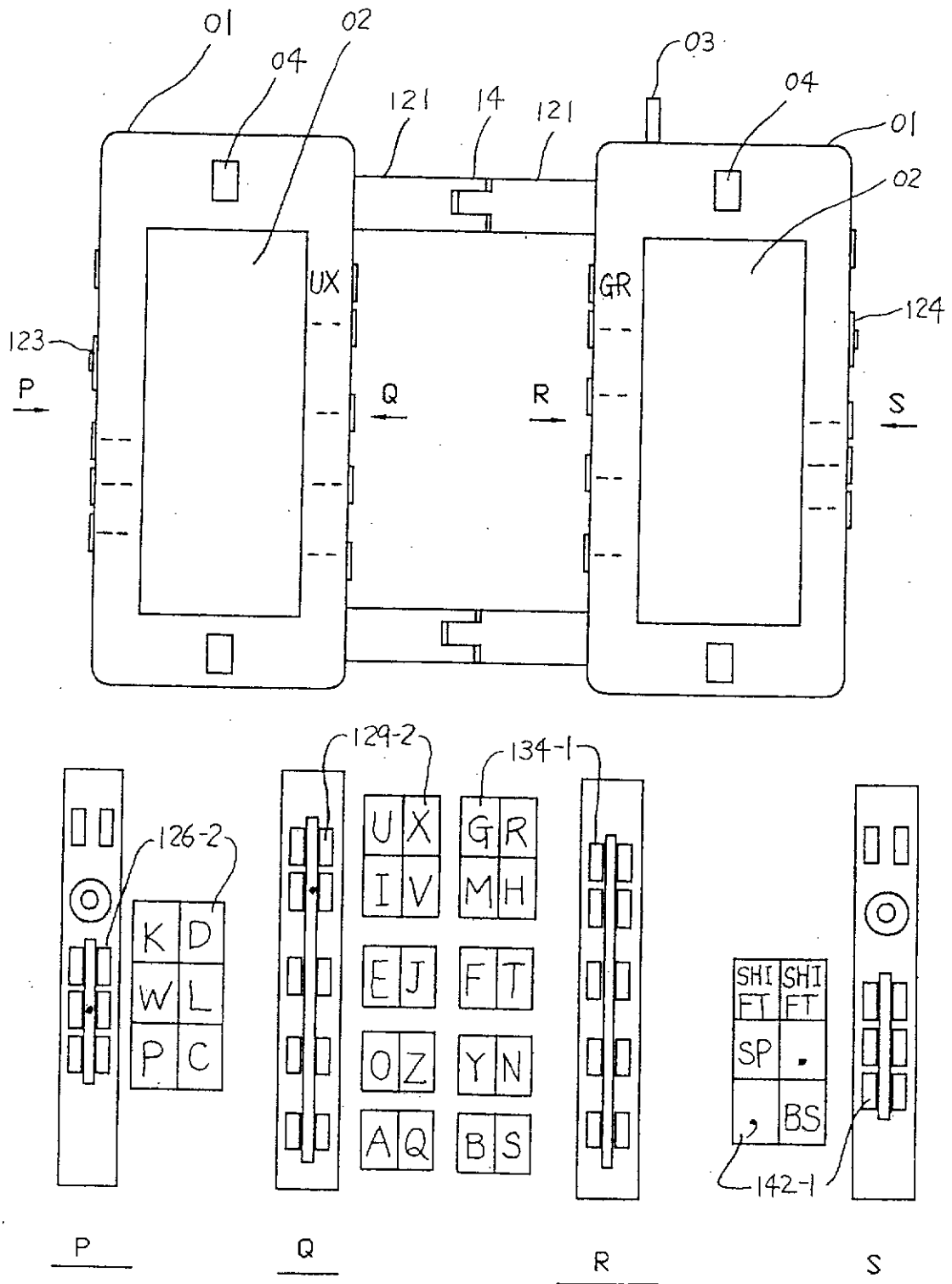
Fig. 31



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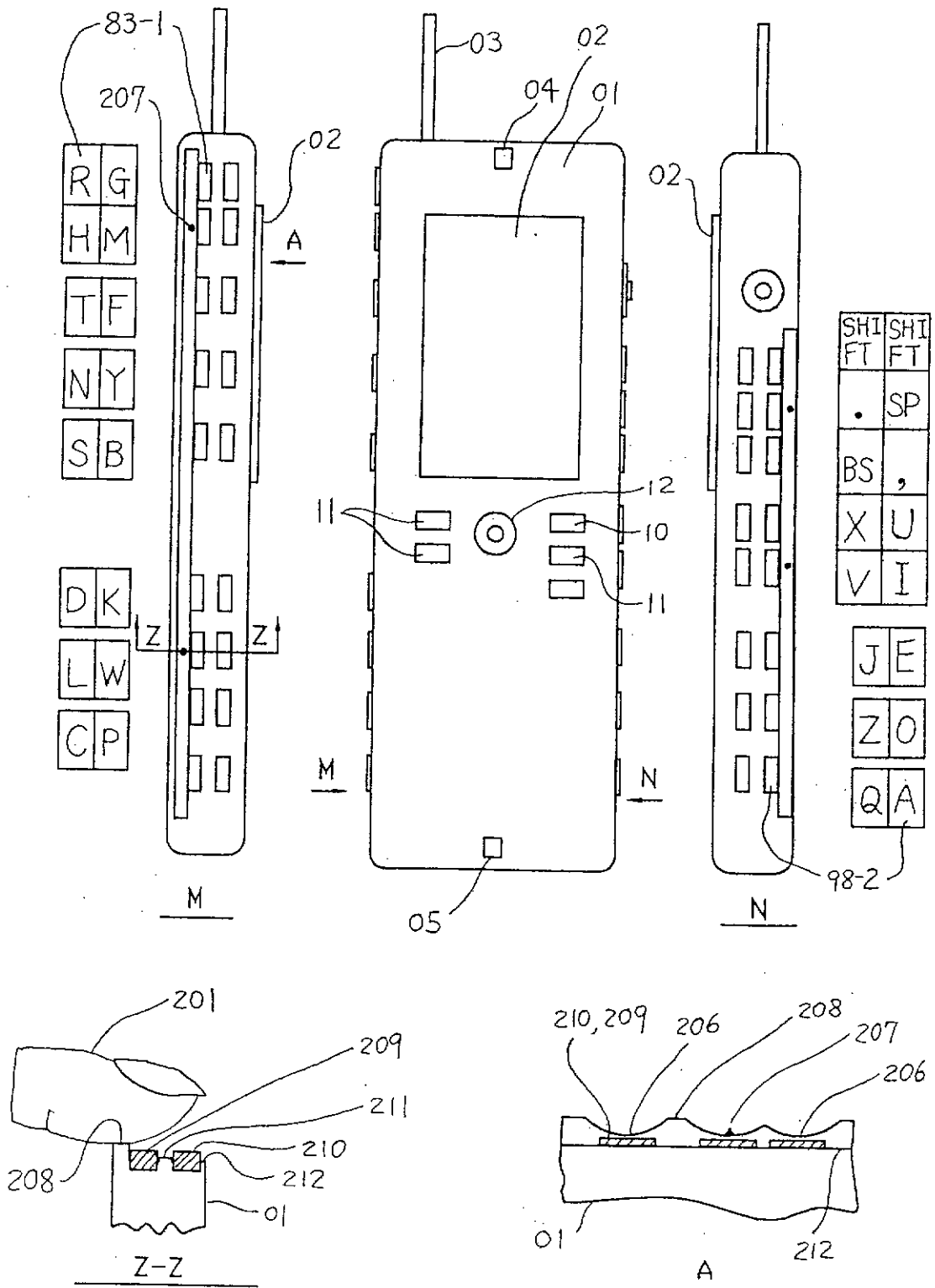
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Fig. 32



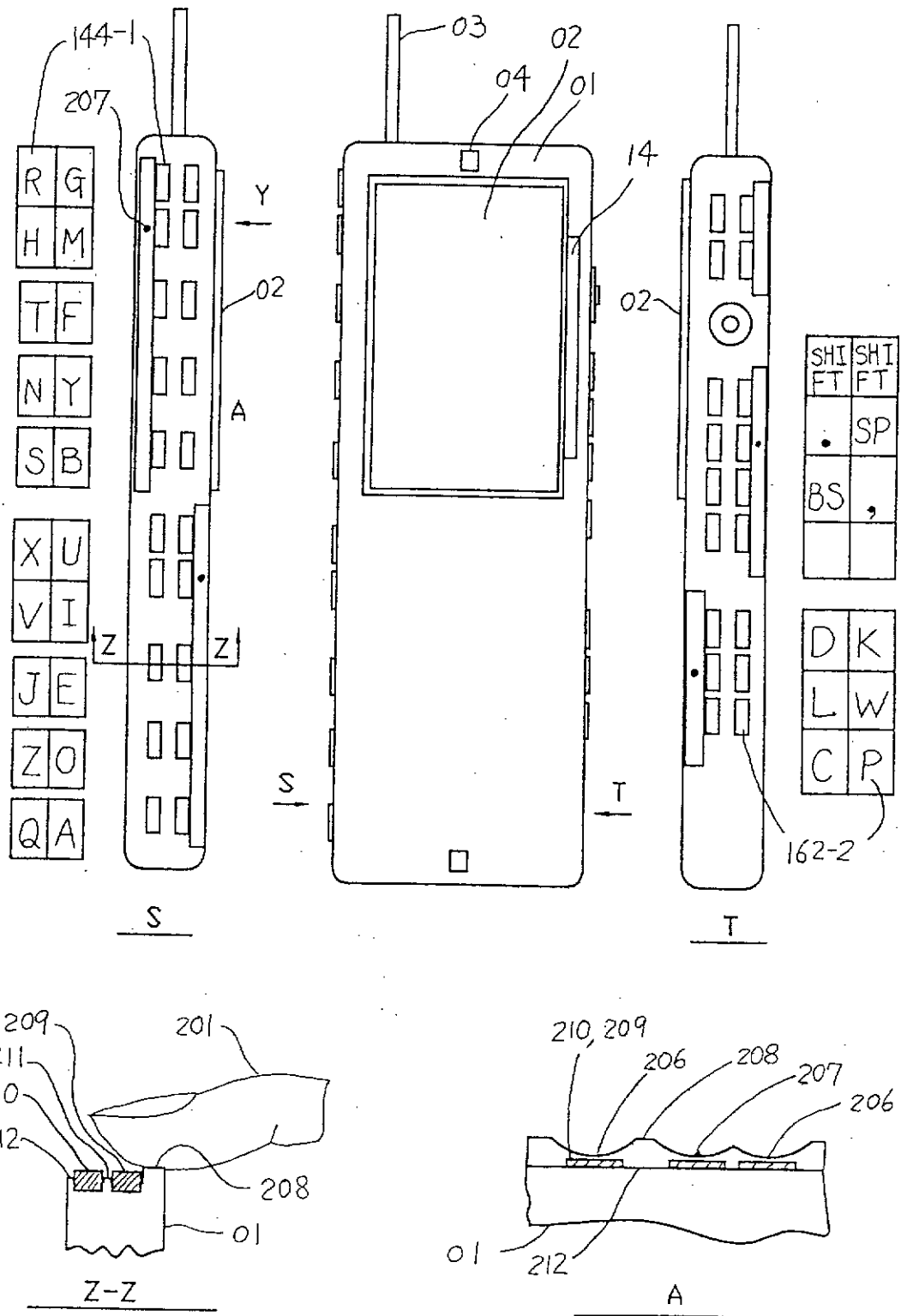
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Fig. 33



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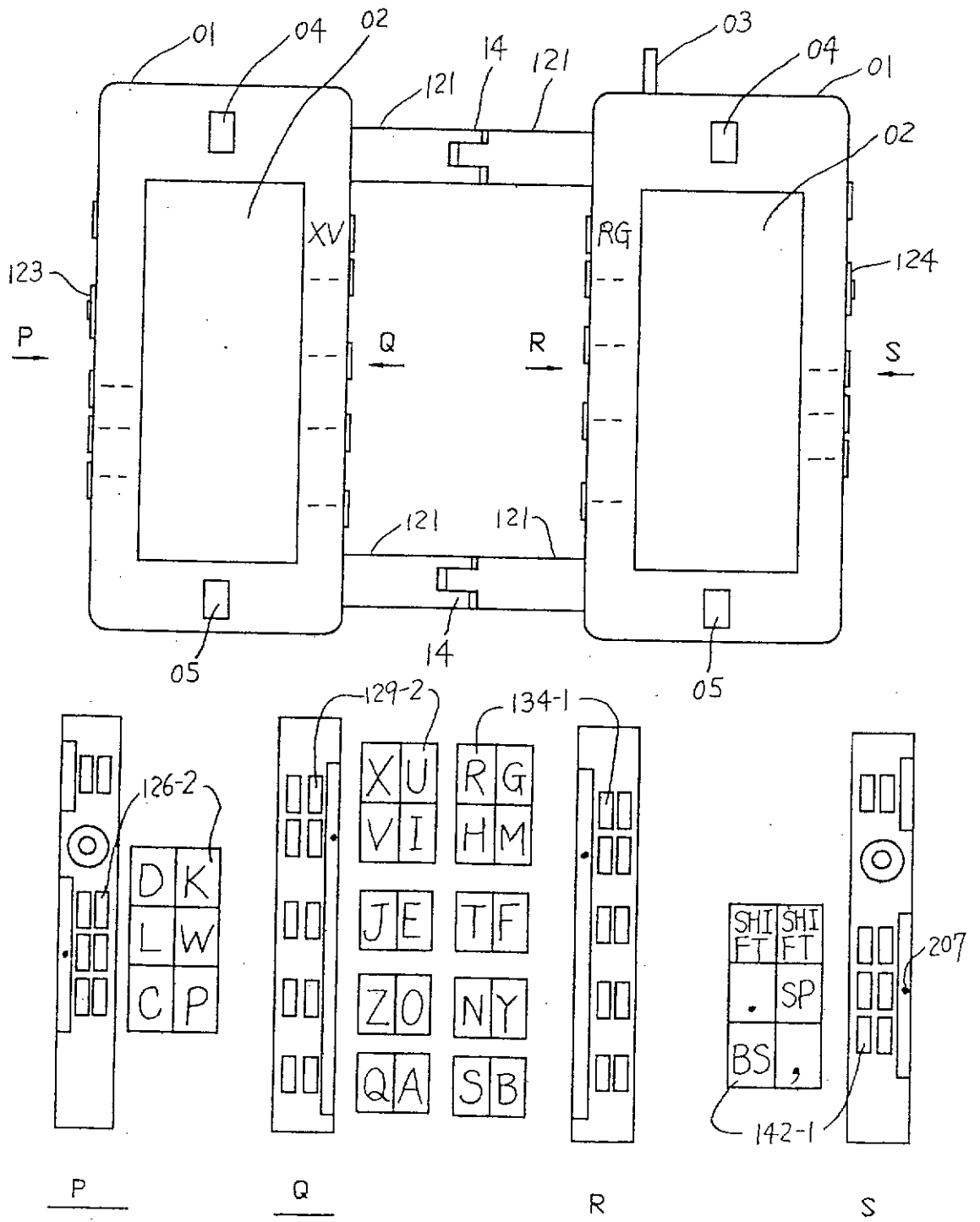
Fig. 34



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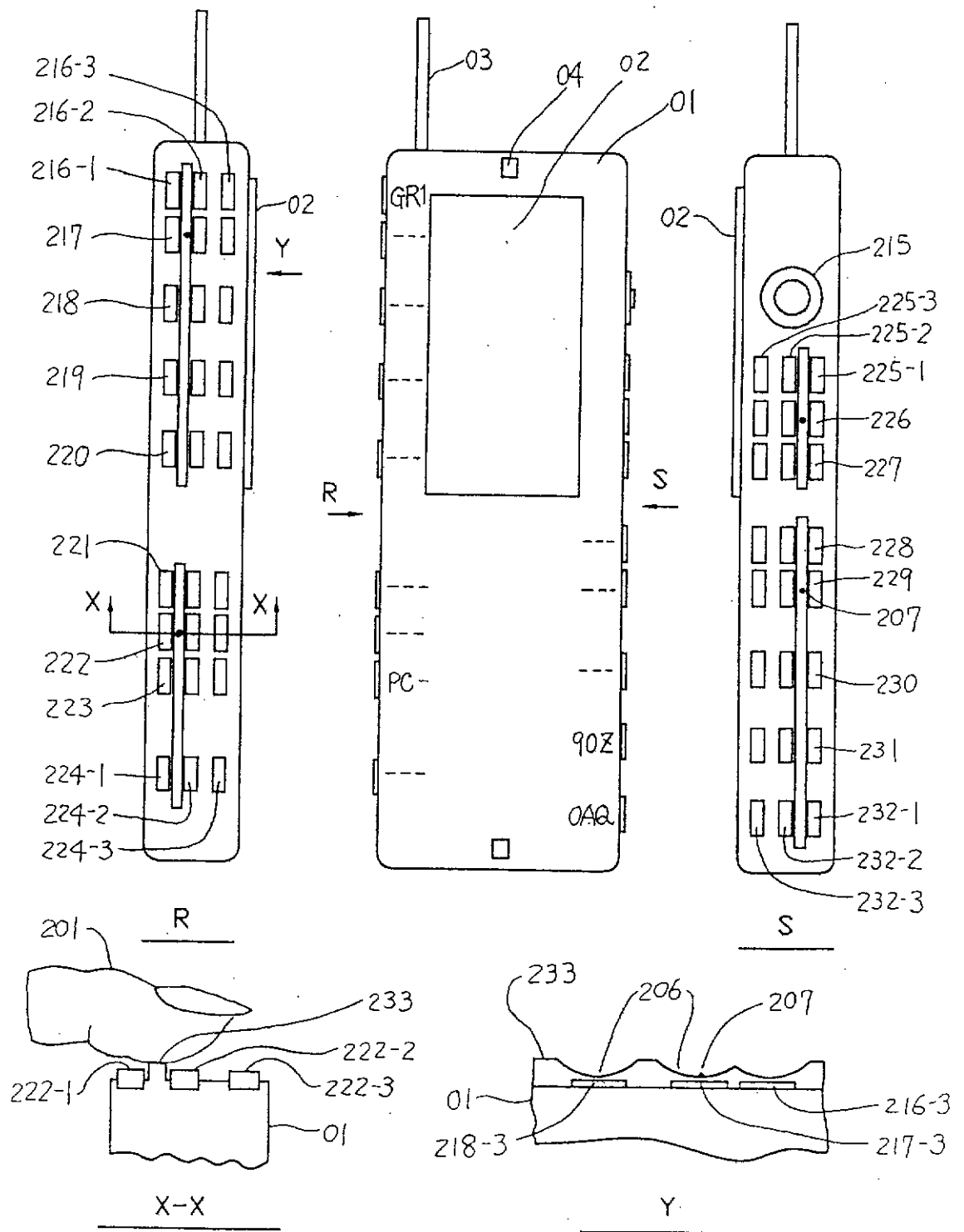
Fig. 35



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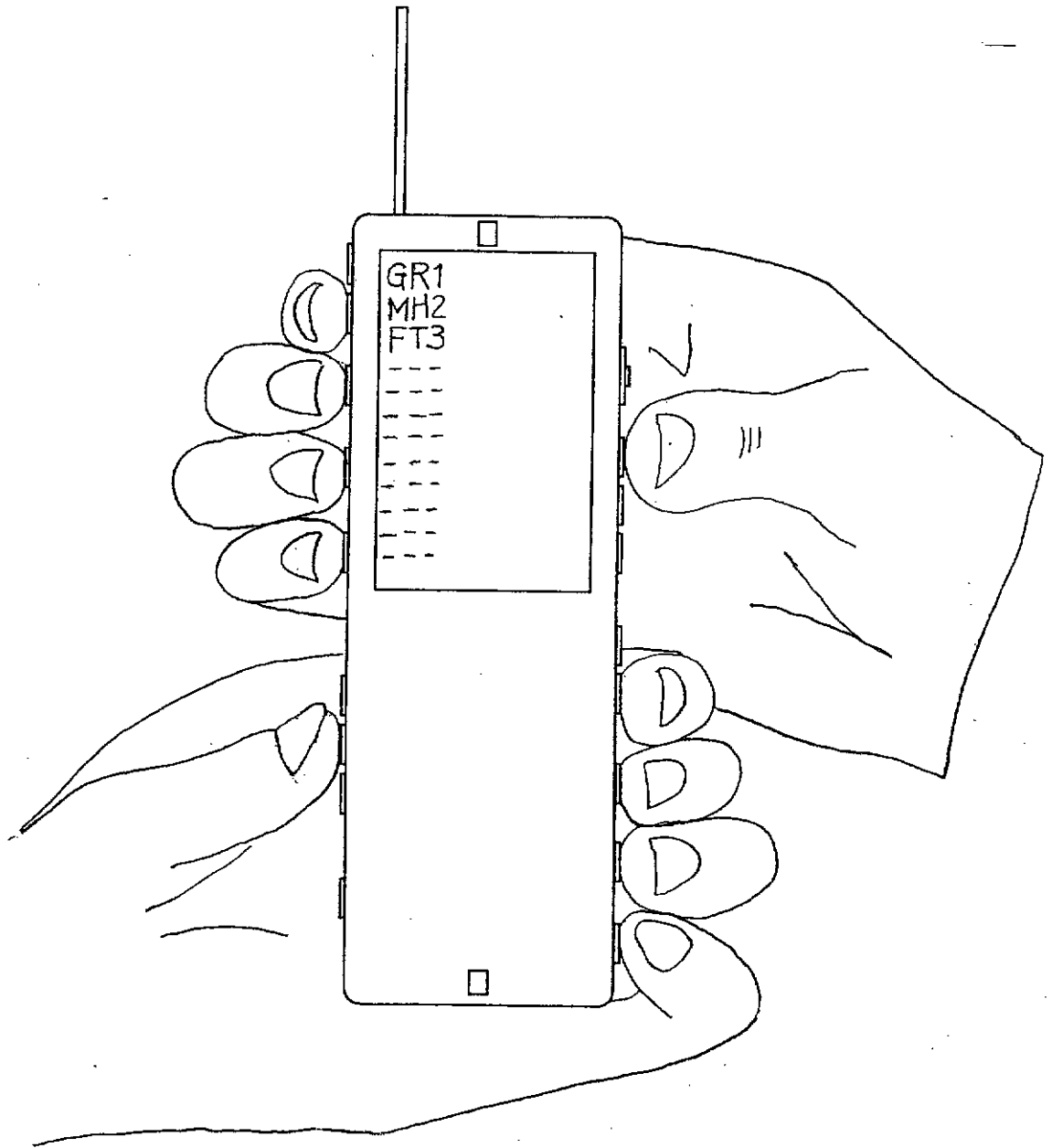
Fig. 36



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Fig. 37



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Fig. 38

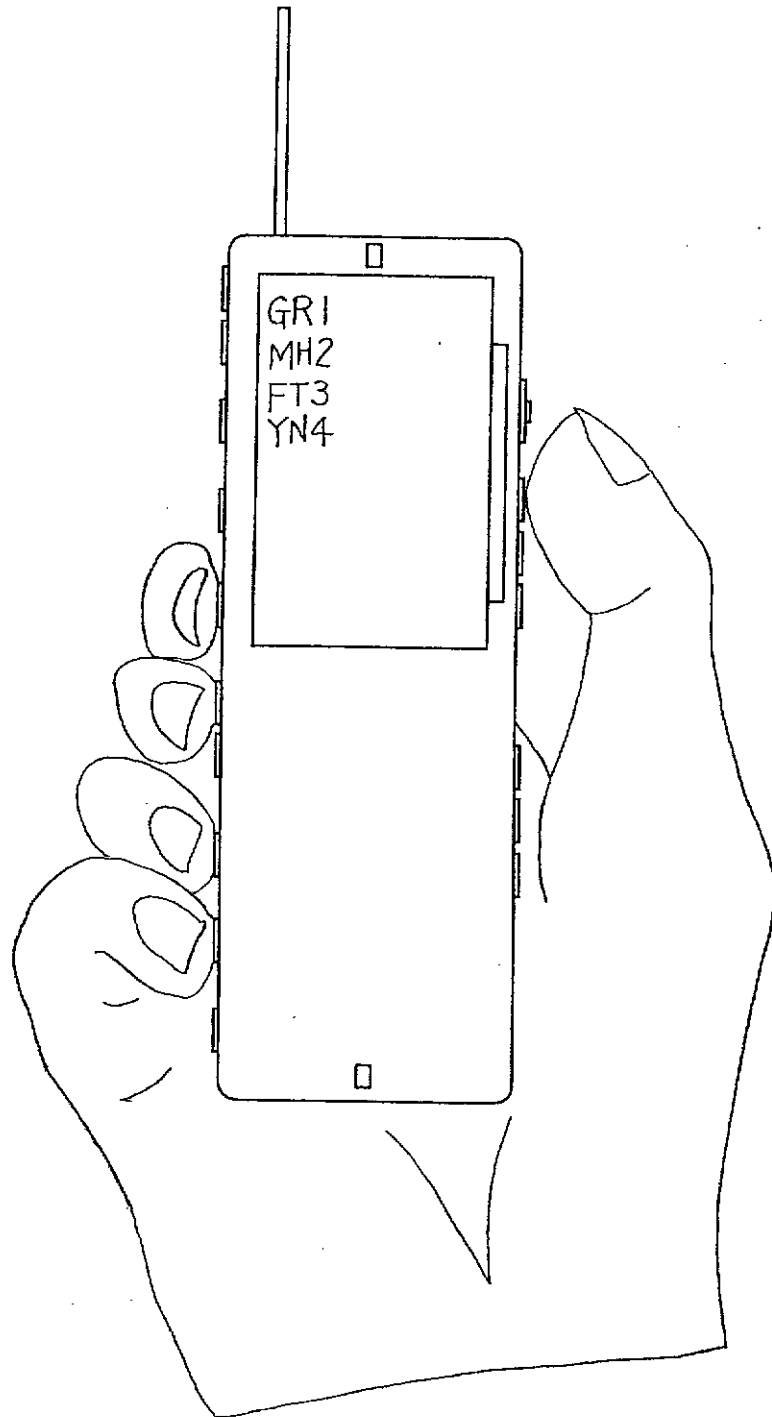
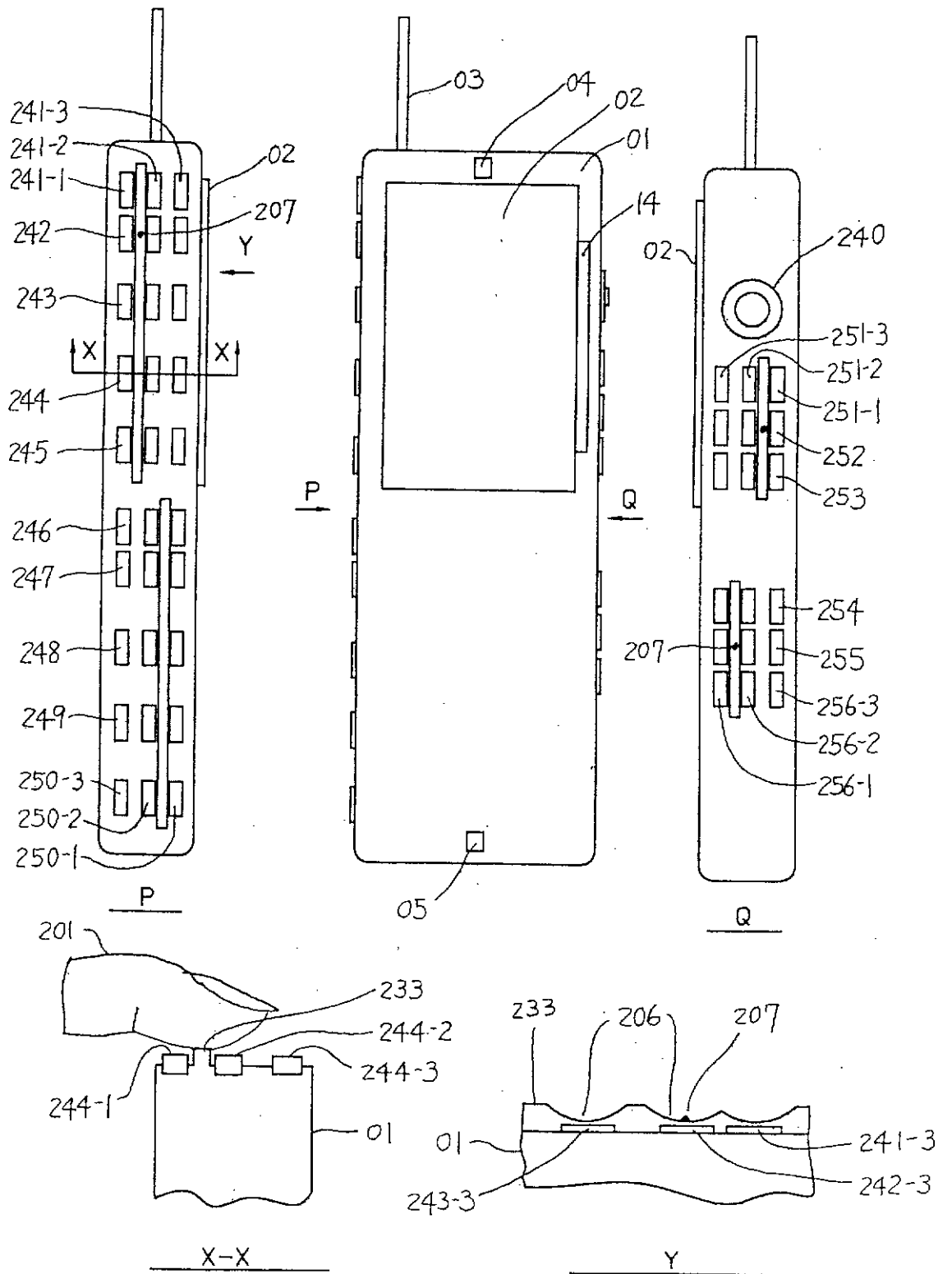


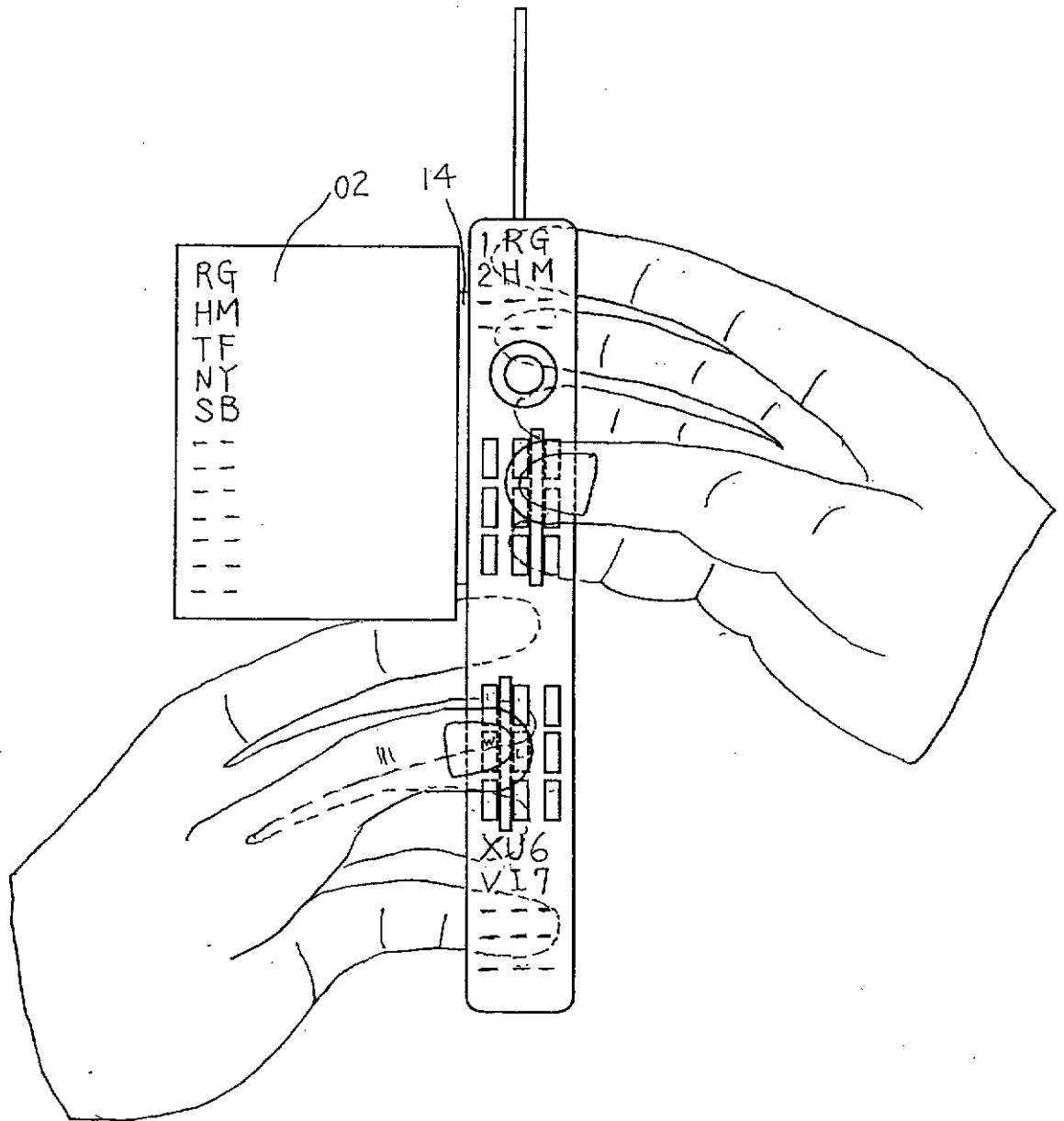
Fig. 39



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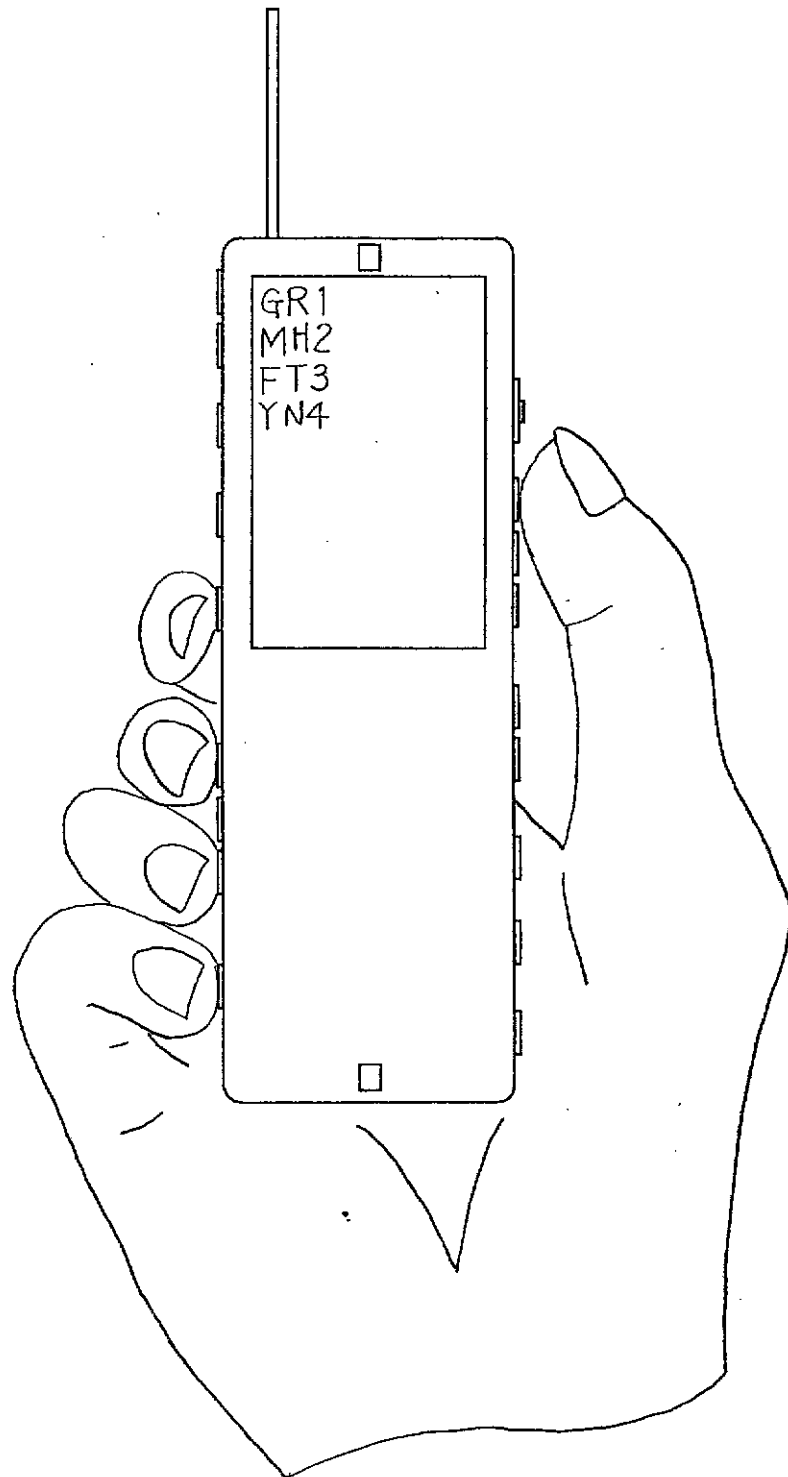
Fig. 40



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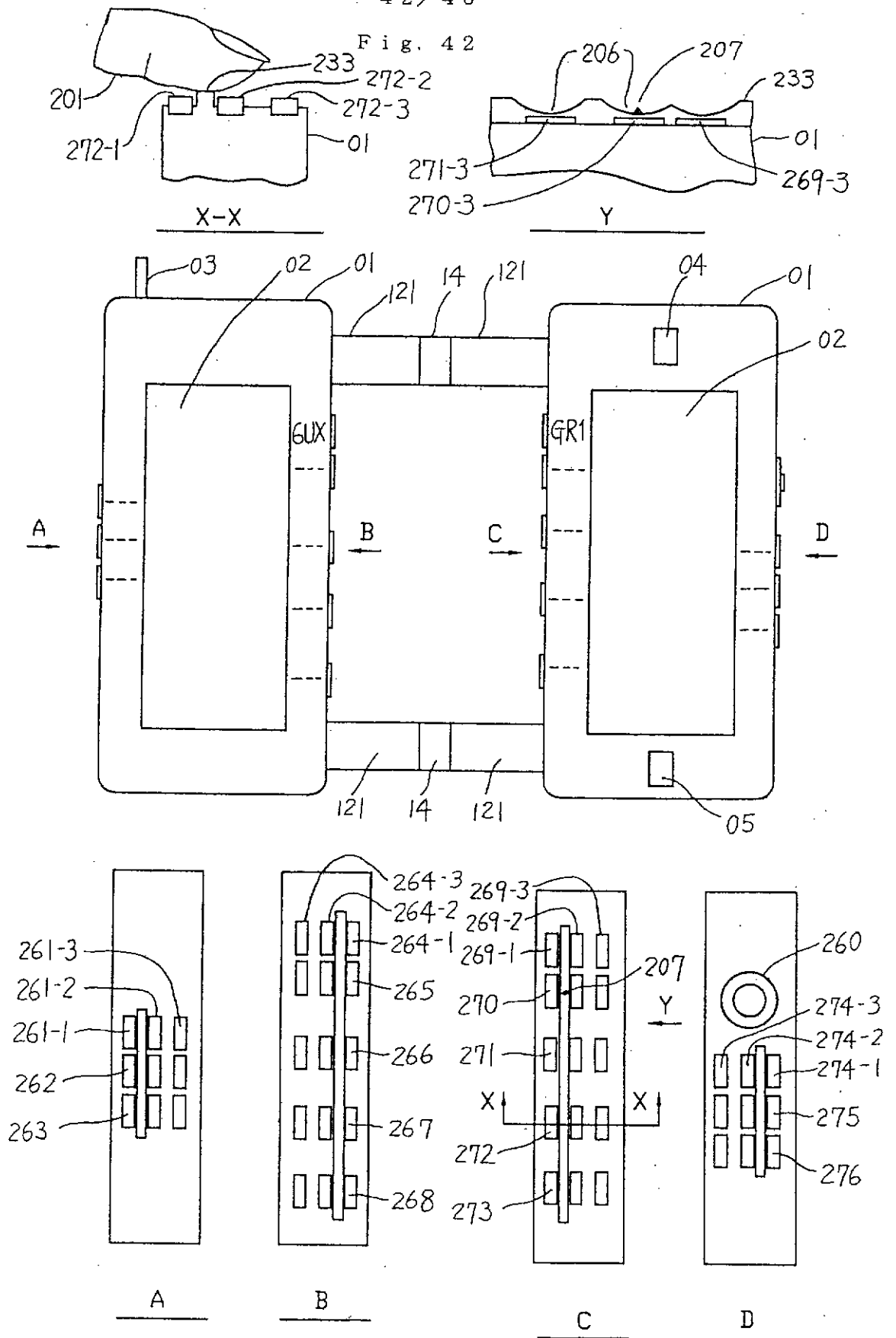
Fig. 41



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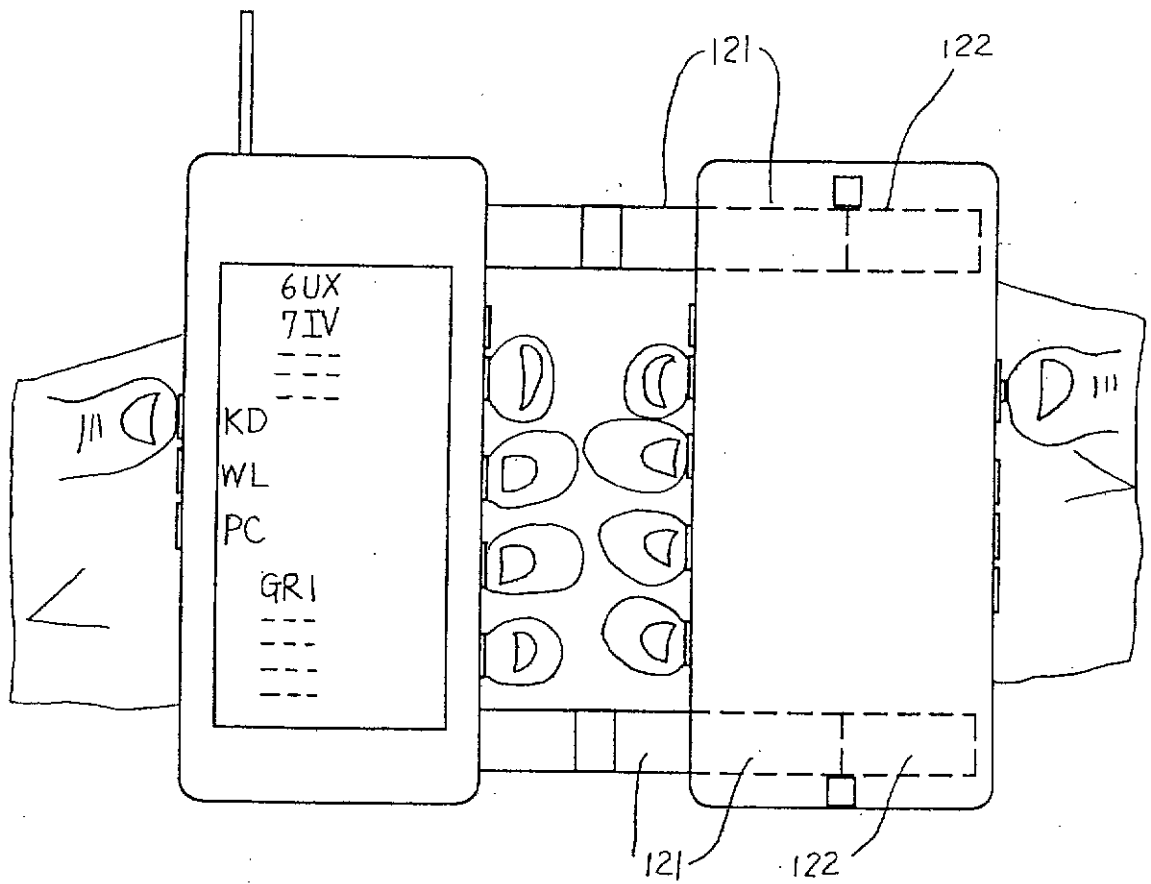
Fig. 42



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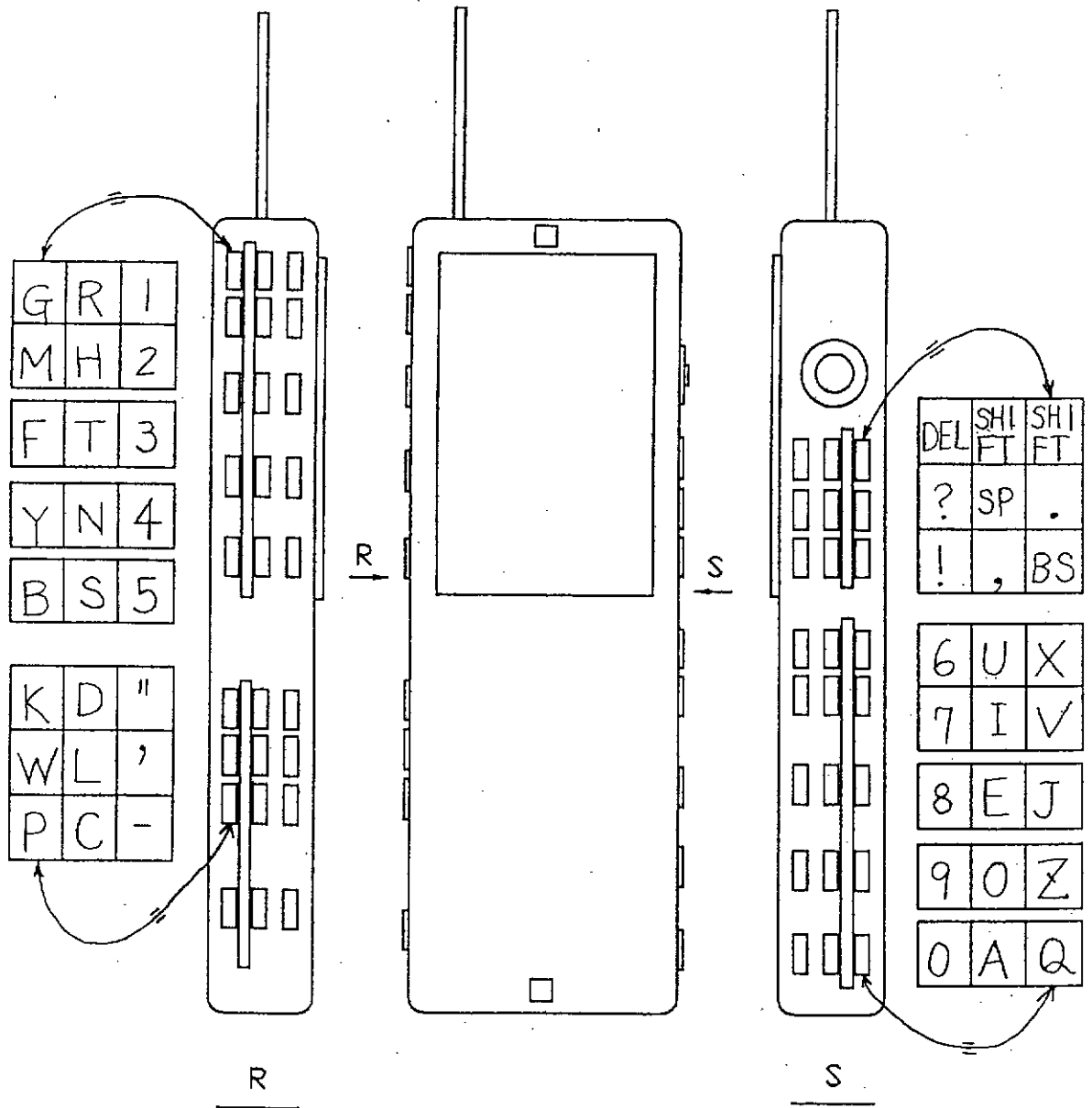
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Fig. 43



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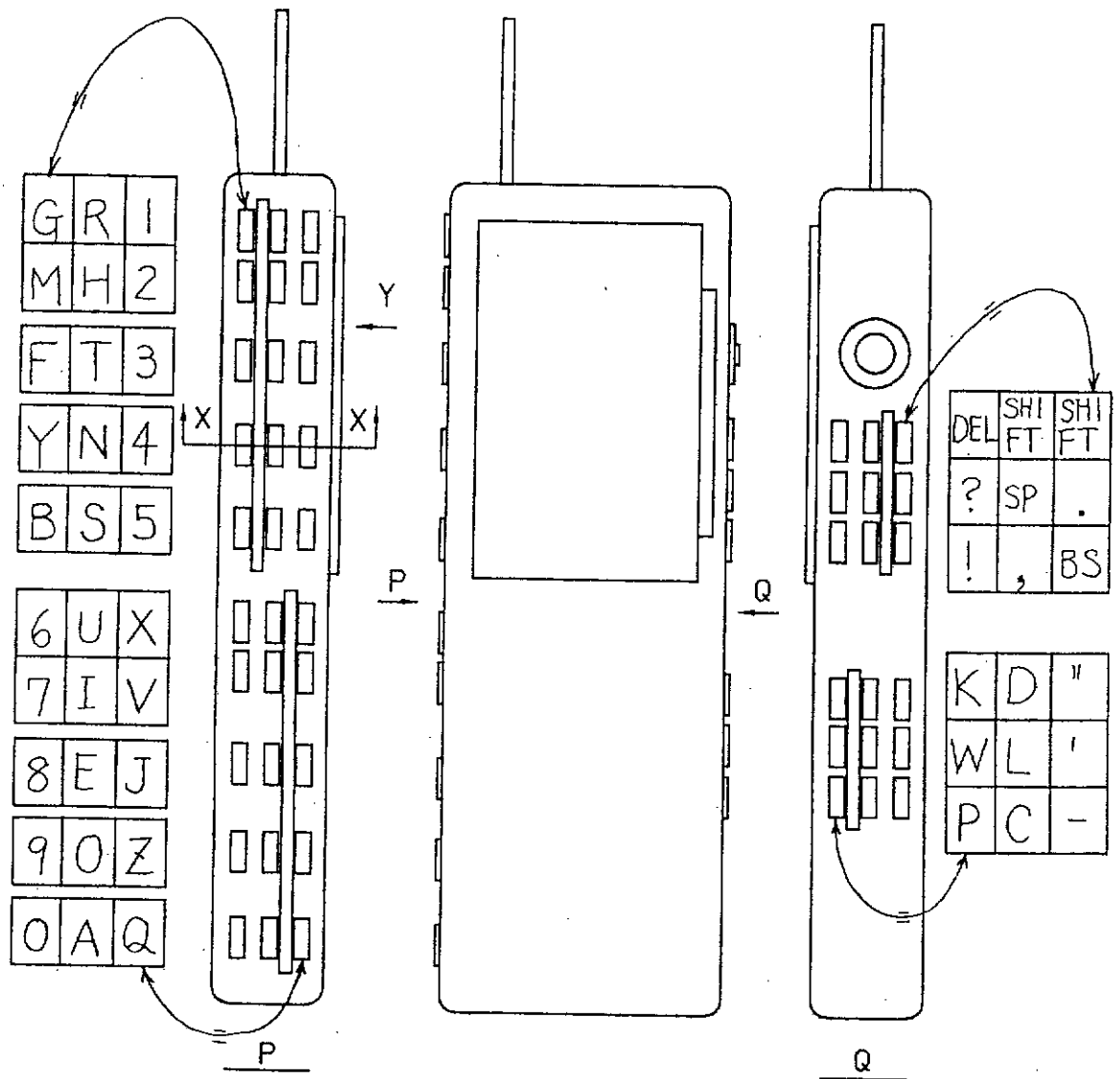
Fig. 44



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Fig. 45



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Fig. 46

