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Harries et al.

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(54) **KEYBOARD OF AN ELECTRONIC COMMUNICATION DEVICE**

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(73) Assignee: **Sierra Wireless, Inc.** (CA)

(**) Term: **14 Years**

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Related U.S. Application Data

(63) Continuation of application No. 29/173,586, filed on Dec. 30, 2002, now abandoned.

(51) **LOC (7) Cl.** **14-03**

(52) **U.S. Cl.** **D14/247**

(58) **Field of Search** D14/137, 138, D14/218, 147-148, 247-248, 144, 341-347; 379/433.01-433.13, 419, 434, 428.01-428.04, 420.01-420.04, 440; 455/550.1-90.3; D21/517; D13/168; D18/2, 7; 345/168, 169

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,180,336 A 12/1979 Lonsdale
D296,692 S 7/1988 Besford et al.
D304,175 S 10/1989 Sakaguchi et al.

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

EP 0933908 A2 8/1999
EP 1137239 A1 9/2001
EP 0933908 A3 12/2002
WO WO/96/23251 8/1996
WO WO/98/19434 5/1998
WO WO/00/54479 9/2000

OTHER PUBLICATIONS

MacKenzie, I. Scott, et al, "A Model of Two-Thumb Text Entry", Proceedings of Graphics Interface, Toronto: Canada Information Processing Society, (2002), pp. 117-124.

MacKenzie, I. Scott, et al. "Text Entry for Mobile Computing: Models and Methods, Theory and Practice", Human-Computer Interaction, (2002) pp. 147-198.

clie_NX70V Sony PEG_web-Microsoft Internet Explorer, Sony PEG-NX07V.pdf, www.sony.com, printed May 2, 2003.

clie Personal Entertainment Organizer, 2003 Sony Electronics., http://sonyelectronics.sonystyle.com/micros/clie/model/nx70v.html.

Samsung Electronics, Samsung SGH-V200.pdf, www.samsung.com, printed May 2, 2003.

Harries, Andrew et al., Ser. No. 10/330,871, Filing date: Dec. 24, 2002, "Improved Mobile Electronic Device".

Tosey, Joseph P. R., et al., Ser. No. 10/439,722, Filing date: May 16, 2003, "Mobile Electronic Device With Tactile Keyboard".

(List continued on next page.)

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(57) **CLAIM**

The ornamental design for a keyboard of an electronic communication device, as shown and described.

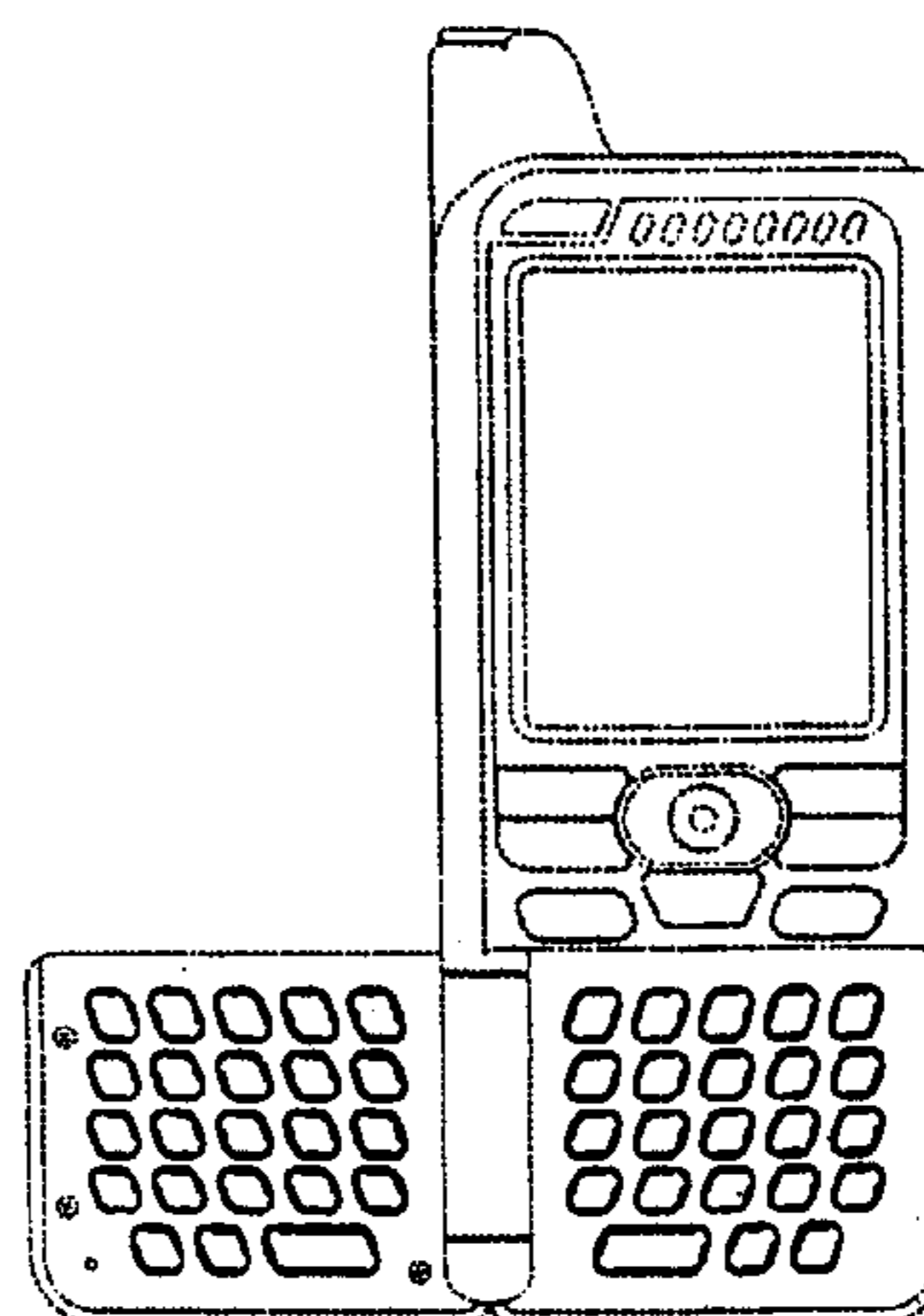
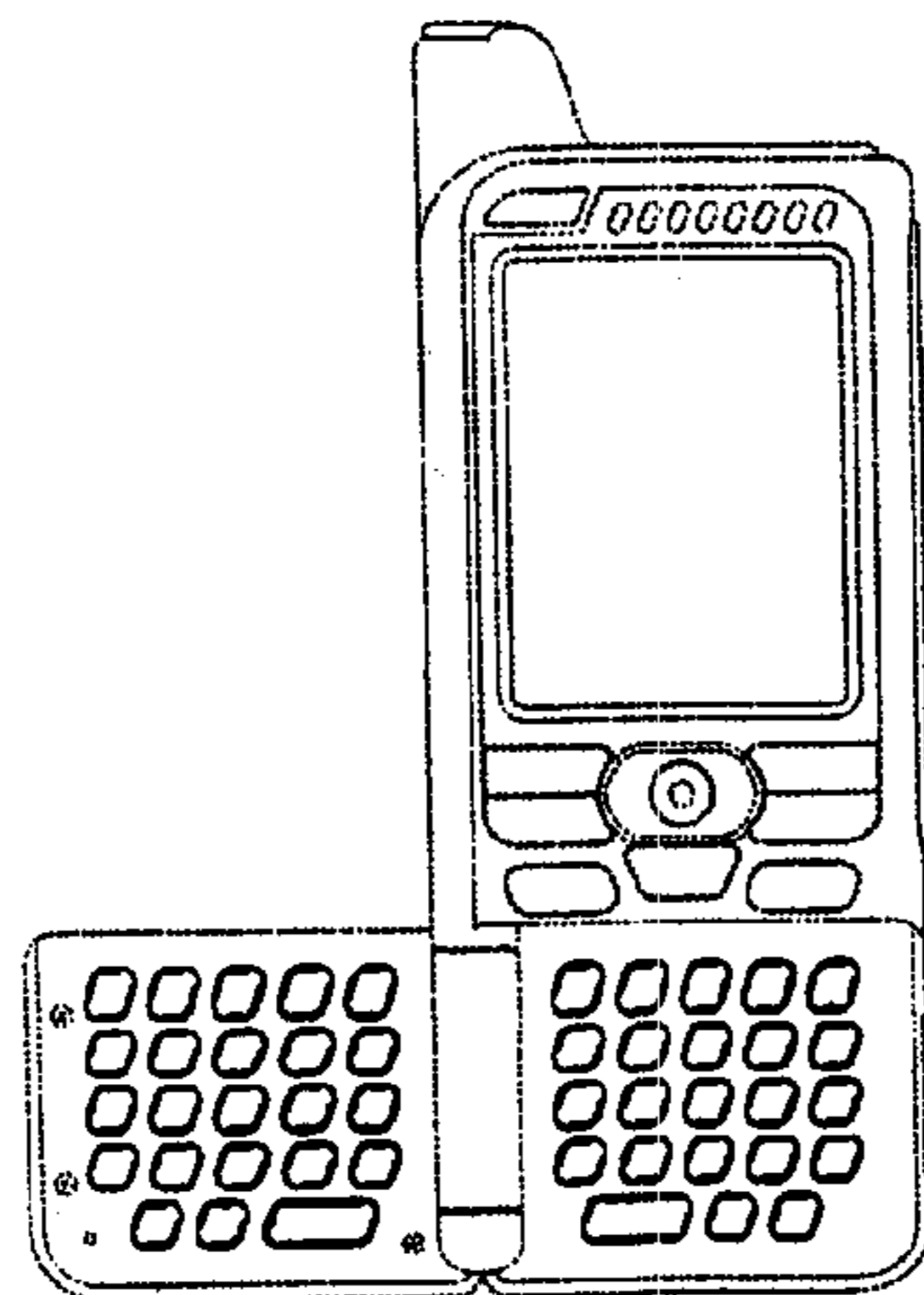
DESCRIPTION

FIG. 1 is an isometric view of a first embodiment of a keyboard of an electronic communication device in accordance with the present invention.

FIG. 2 is a front elevation view of the keyboard of FIG. 1. FIG. 3 is an isometric view of a second embodiment of a keyboard of an electronic communication device in accordance with the present invention; and,

FIG. 4 is a front elevation view of the keyboard of FIG. 3. The broken lines showing throughout all views of both embodiments are for illustrative purposes only and form no part of the claimed design.

1 Claim, 2 Drawing Sheets



U.S. PATENT DOCUMENTS

D312,628 S	12/1990	Yokoi et al.	
D313,401 S	1/1991	Tanabe	
D313,413 S	1/1991	Langton	
D338,461 S	8/1993	Paton et al.	
5,337,346 A	8/1994	Uchikura	
5,644,338 A *	7/1997	Bowen	345/168
D390,509 S	2/1998	Antzinas et al.	
5,841,635 A *	11/1998	Sadler et al.	361/749
D402,572 S	12/1998	Han	
D416,256 S	11/1999	Griffin et al.	
D426,218 S *	6/2000	Abed et al.	D14/138
6,073,034 A	6/2000	Jacobsen et al.	
D432,511 S	10/2000	Eckholm	
D433,460 S *	11/2000	Griffin et al.	D21/329
D435,248 S	12/2000	Su	
6,167,251 A	12/2000	Segal et al.	
D436,102 S	1/2001	Wu	
6,223,059 B1	4/2001	Hastrup	
6,223,291 B1	4/2001	Puhl et al.	
D441,733 S	5/2001	Do et al.	
D443,839 S *	6/2001	Brandenberg et al.	D10/65
D446,512 S	8/2001	Lee	
6,278,422 B1	8/2001	Ukai et al.	
6,297,945 B1	10/2001	Yamamoto	
D451,079 S	11/2001	Ali	
D451,497 S *	12/2001	Wang et al.	D14/218
D454,349 S	3/2002	Makidera et al.	
D455,137 S *	4/2002	Wang	D14/138
D455,138 S	4/2002	Wang	
D456,794 S	5/2002	Laverick et al.	
6,389,267 B1	5/2002	Imai	
D459,327 S	6/2002	Ali	
D460,493 S *	7/2002	Griffin et al.	D21/329
6,415,156 B1	7/2002	Stadelmann	
6,452,588 B2	9/2002	Griffin et al.	
6,480,377 B2 *	11/2002	Genest et al.	361/686
6,480,671 B2	11/2002	Takahashi et al.	
D467,917 S *	12/2002	Tischer	D14/345
6,489,950 B1 *	12/2002	Griffin et al.	345/168
6,493,560 B1	12/2002	Guan et al.	
6,507,727 B1	1/2003	Henrick	
D469,749 S *	2/2003	Kim	D14/138
D470,150 S	2/2003	Lewis, Jr. et al.	
D470,151 S	2/2003	Lewis, Jr. et al.	
D471,559 S *	3/2003	De Saulles	D14/455
D472,551 S *	4/2003	Griffin	D14/346
6,567,677 B1	5/2003	Sokoloff	
6,580,932 B1 *	6/2003	Finke-Anlauff	455/566
D477,596 S *	7/2003	Hayes	D14/343
D478,075 S	8/2003	Hayes	
D478,324 S	8/2003	O'Neil	
D478,882 S	8/2003	Peng et al.	
D478,883 S	8/2003	Jensfelt et al.	
D479,213 S	9/2003	Ansley et al.	
6,628,508 B2 *	9/2003	Lieu et al.	361/680
6,628,961 B1 *	9/2003	Ho et al.	455/557
D481,710 S *	11/2003	Helin	D14/247
D481,733 S *	11/2003	Pan et al.	D14/398
6,661,404 B1 *	12/2003	Sirola et al.	345/168
D488,453 S *	4/2004	Chang et al.	D14/138
D488,465 S *	4/2004	Gartrell et al.	D14/247
2001/0034222 A1	10/2001	Roustaei et al.	
2002/0051060 A1	5/2002	Wada	
2002/0072395 A1	6/2002	Miramontes	
2002/0190957 A1 *	12/2002	Lee et al.	345/169
2003/0043118 A1	3/2003	Lee	
2003/0054830 A1	3/2003	Williams et al.	
2003/0063070 A1	4/2003	Kang	
2003/0073456 A1 *	4/2003	Griffin et al.	455/550
2003/0078069 A1	4/2003	Lindeman	
2003/0157957 A1 *	8/2003	Wendorff et al.	455/550

OTHER PUBLICATIONS

Gauld, Craig S. et al., Ser. No. 10/358,497, Filing date: Feb. 4, 2003, "Camera Integration On a Mobile Device".
 Miramontes, Ivan, Ser. No. 10/468,721, Filing date: Aug. 21, 2003, "Electronic Device with Extendable Keyboard".
 Heintz, Todd, et al., Ser. No. unassigned; Filing date; Dec. 31, 2003, "Electronic Device with Fold Out Display and/or Keyboard".
 Winebrenner, Jon T., et al., Ser. No. unassigned, Filing date: Feb. 9, 2004, "Electronic Communication Device".
 Harries, Andrew S. G., et al., Ser. No. 29/196,614, Filing date: Dec. 31, 2003, "Design for Electronic Communication Device".

* cited by examiner

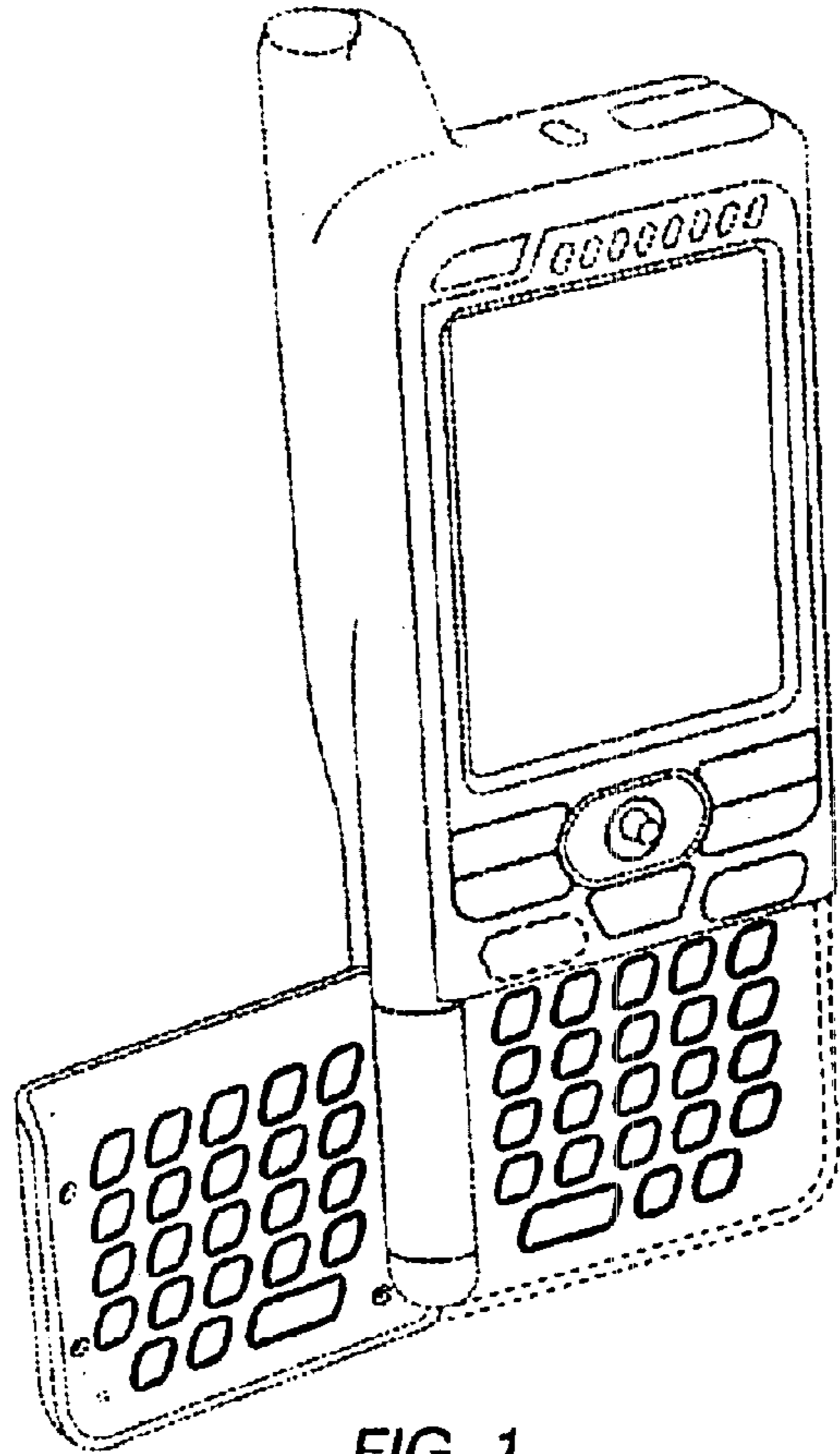


FIG. 1

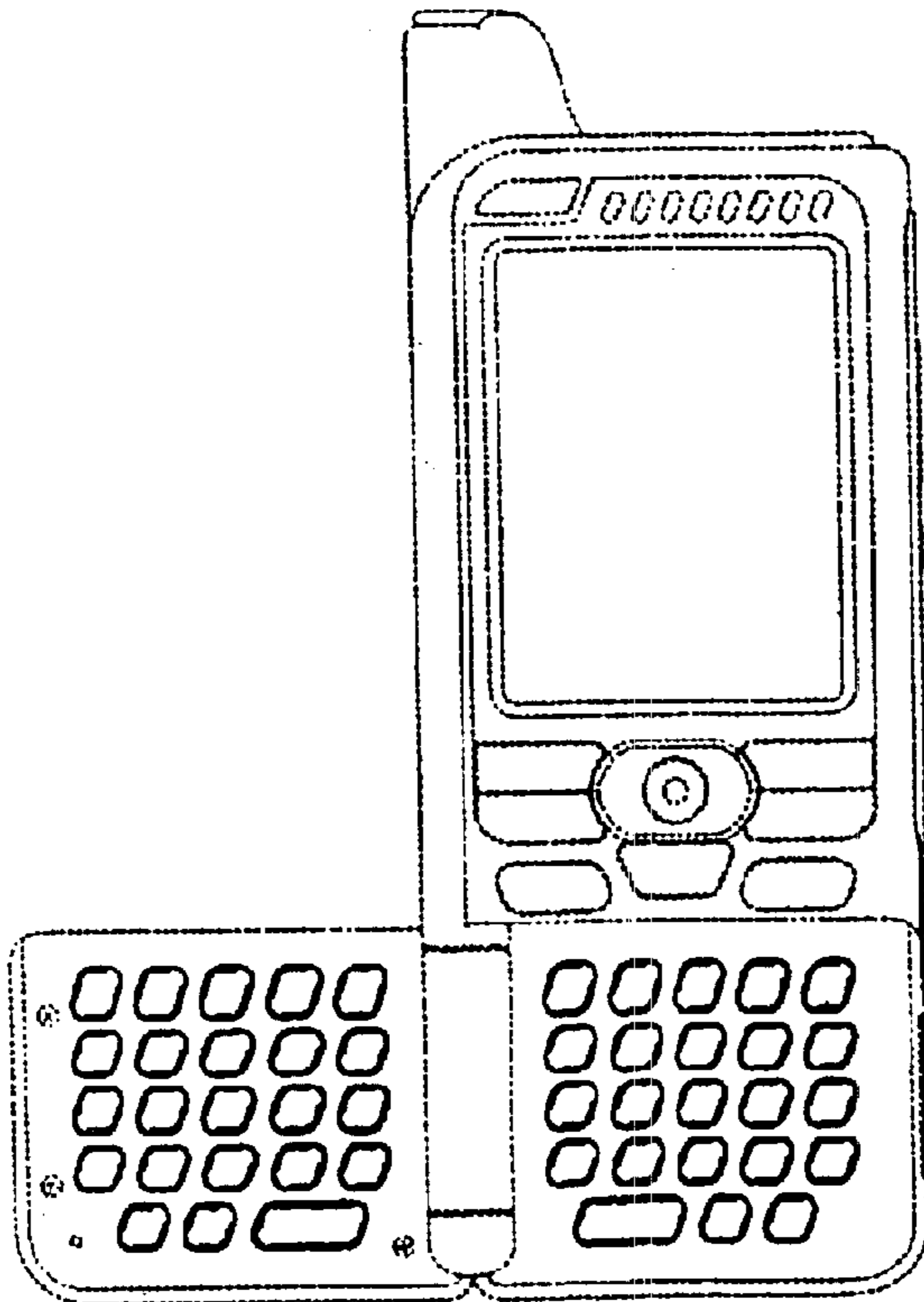


FIG. 2

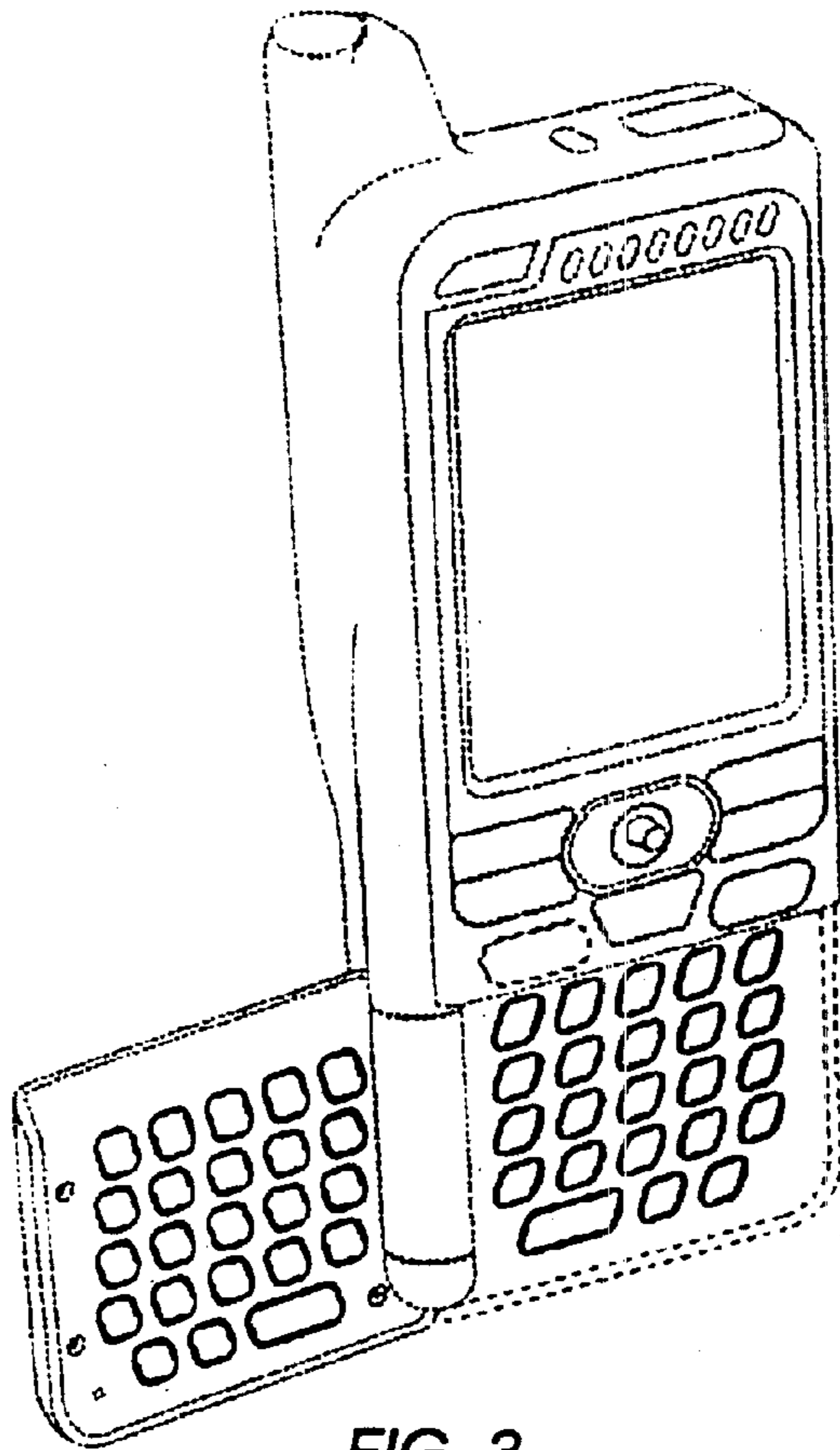


FIG. 3

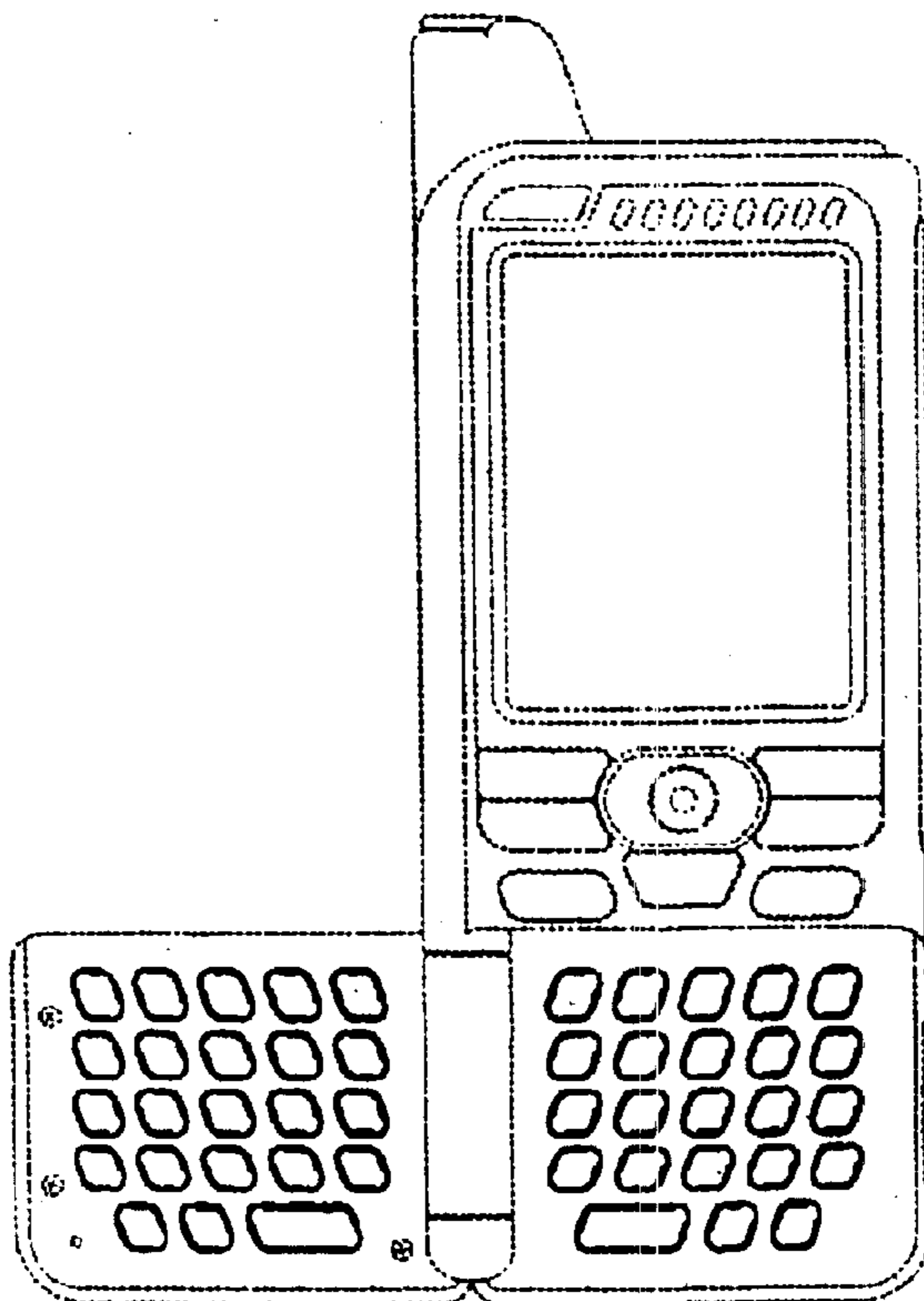


FIG. 4