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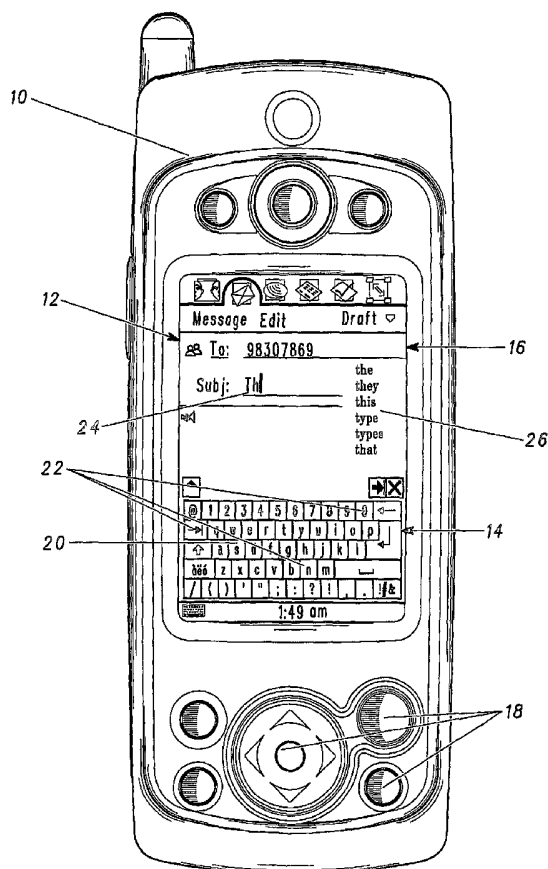
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- (71) Applicant (for all designated States except US): **MO-TOROLA INC.** [US/US]; 1303 East Algonquin Road, Schaumburg, IL 60196 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **CHUA, Yong Tong** [SG/SG]; 62 Highland Road, Singapore 549147 (SG).
- (74) Agents: **VAAS, Randall S.** et al.; 600 North US Highway 45, Libertyville, IL 60048 (US).
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[Continued on next page]

(54) Title: KEYBOARD ERROR REDUCTION METHOD AND APPARATUS



(57) Abstract: In a mobile telephone (10) with a virtual keyboard and a touch screen (12), with individual virtual keys (22) having their own representative positions. During a selection operation to select a key (22), where the touch screen is touched becomes the selected position. The distance between the selected position and adjacent representative positions is used to decide a first set of candidate keys. These candidate keys are then used to provide a set of potential words that would result from the input of any one of those keys. A list of candidate words is then produced and displayed on a display area (26) based on the frequency of use of the words in the set of potential words and the distances between the selected position and the representative position of the keys (22). Once a key (22) is confirmed as having been selected, the offset between the selected position and the representative position of that key is used to re-calibrate that representative position.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

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PCT/US04/08405

## A. CLASSIFICATION OF SUBJECT MATTER

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US CL : 345/773

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 345/773, 156, 173, 175, 177, 178, 179, 168, 764, 771, 780, 810, 811, 812, 864, 816, 862, 856, 858

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,040,824 A (MAEKAWA et al) 21 March 2000 (21.03.2000), column 1, lines 58-67, column 8, lines 1-32, column 2, lines 5-10, column 10, lines 27-40.	1-3, 9-10, 13-16, 22-23 -----
Y, E	US 6,801,190 B1 (ROBINSON et al) 05 October 2004, column 3, lines 44-53, column 15, lines 12-30, column 20, lines 20-44.	4-6, 8, 11-12, 17-19, 4-6, 8, 17-19, 21
Y	US 6,487,424 B1 (KRAFT et al) 26 November 2002 (26.11.2002), column 9, lines 47-60.	4-6, 8, 11-12, 17-19, 21, 24-25



Further documents are listed in the continuation of Box C.



See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Kieu Vu

Telephone No. 517-272-4057

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Continuation of B. FIELDS SEARCHED Item 3:  
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