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# (12) United States Patent Kim et al.

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### (54) MOBILE TERMINAL AND METHOD OF CONTROLLING THE MOBILE TERMINAL

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(\*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 388 days.

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(30) Foreign Application Priority Data

(51) Int. Cl. *H04L 29/06* 

(2006.01)

(52) U.S. Cl.

### (56) References Cited

### U.S. PATENT DOCUMENTS

7,280,677	B2 *	10/2007	Chandler et al.	 382/116
7,420,546	B2 *	9/2008	Abdallah et al.	 345/173

#### FOREIGN PATENT DOCUMENTS

JP 2007-304646 A 11/2007 WO WO 2007/140806 A1 12/2007 WO WO 2008/086302 A1 7/2008

#### OTHER PUBLICATIONS

Ahmad Ahsanullah et al. "Research Design for Evaluation of Finger Input Properties on Multi-touch Screen." International Conference on Information and Communication Technologies (ICICT), Jul. 23-24, 2011 (pp. 1-6).\*

### \* cited by examiner

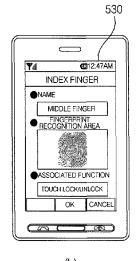
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### (57) ABSTRACT

A mobile terminal and a method of controlling the mobile terminal are provided. The method includes storing a plurality of pieces of fingerprint information on at least one of a finger-by-finger basis, a user-by-user basis, and a pattern-by-pattern basis; receiving a fingerprint-touch input through a display module capable of performing fingerprint identification; and if fingerprint information of the received finger-print-touch input matches with one of the plurality of pieces of fingerprint information for locking a predefined operating menu, locking the predefined operating menu. Therefore, it is possible to easily lock or unlock the mobile terminal in response to a fingerprint-touch input. In addition, it is possible to effectively perform various operations performed by the mobile terminal in response to a fingerprint-touch input.

### 18 Claims, 33 Drawing Sheets







(b)

(c)

**Annle Ex. 1016** 



FIG. 1

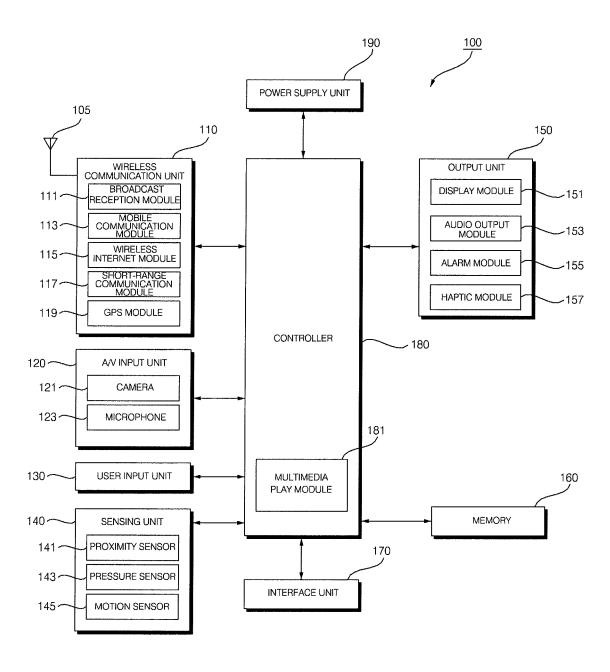




FIG. 2

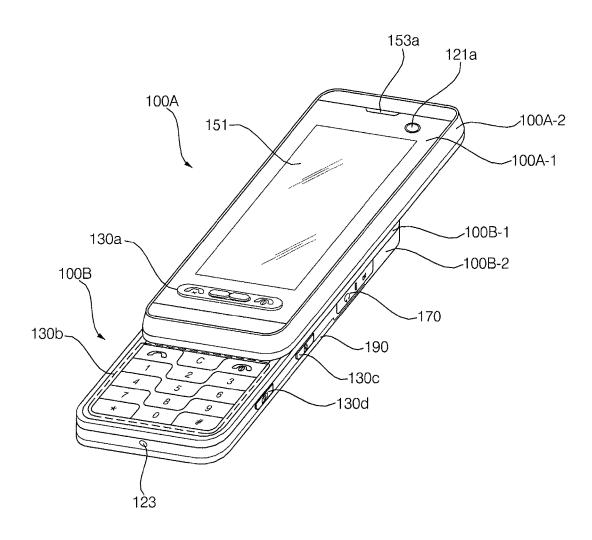


FIG. 3

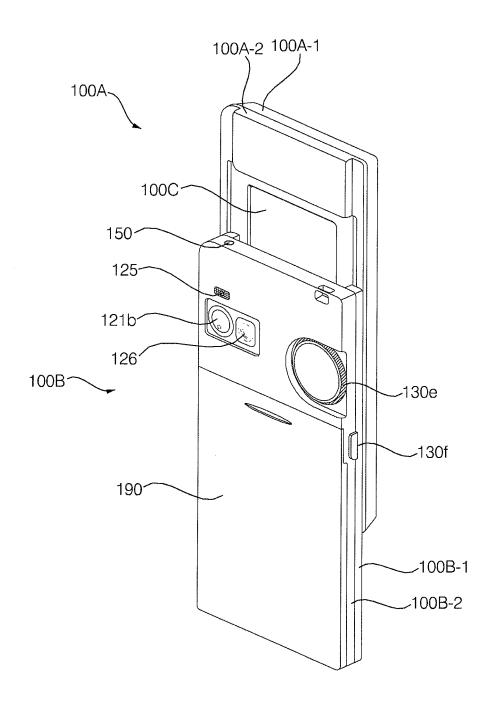
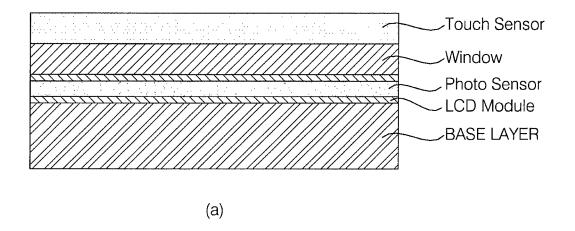
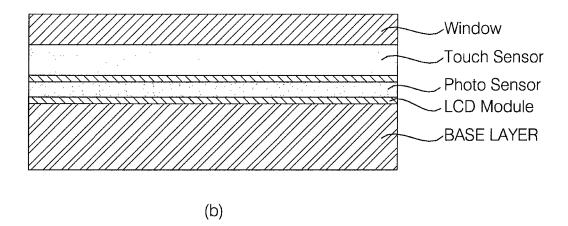




FIG. 4







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