US008880121B2

(12) **United States Patent**
Gu et al.

(10) **Patent No.: US 8,880,121 B2**
(45) **Date of Patent: Nov. 4, 2014**

(54) **METHODS AND DEVICES FOR OPERATING MOBILE TERMINAL ALARM CLOCK UNDER SHUTDOWN STATE**

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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 0 days.

(21) Appl. No.: **13/955,824**

(22) Filed: **Jul. 31, 2013**

(65) **Prior Publication Data**

US 2014/0051478 A1 Feb. 20, 2014

(30) **Foreign Application Priority Data**

Aug. 15, 2012 (CN) 2012 1 0291619

(51) **Int. Cl.**
H04M 11/04 (2006.01)
H04M 1/00 (2006.01)
G04G 13/02 (2006.01)

(52) **U.S. Cl.**
CPC ***G04G 13/02*** (2013.01)
USPC **455/556.1**; 455/404.1

(58) **Field of Classification Search**
CPC .. G04G 13/02; G04G 13/028; H04M 1/72538
USPC 455/66.1, 404.1, 556.1; 368/244, 368/259–260
See application file for complete search history.

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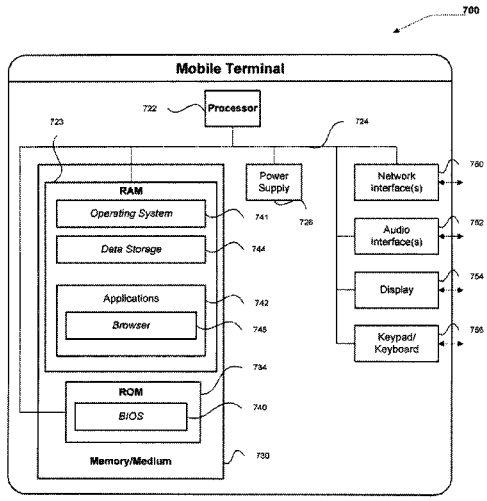
(57) **ABSTRACT**

A mobile terminal may comprise an executing unit being configured to activate an alarm clock when the mobile terminal is off. The mobile terminal may be configured to receive a target alarm clock activation time; determine a time difference between a current time and the target alarm clock activation time; and compare the time difference with a first reference time period. Upon determining that time difference is less than the first reference time period, the mobile terminal may start up. Upon determining that the time that the mobile terminal completes the startup is less than a second reference time period, the mobile terminal may activate the alarm clock.

20 Claims, 5 Drawing Sheets