

EXHIBIT 9

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

(10) **Patent No.:** **US 10,212,586 B2**
 (45) **Date of Patent:** **Feb. 19, 2019**

- (54) **MOBILE TERMINAL AND CONTROL METHOD THEREOF** 2006/0128305 A1* 6/2006 Delalat 455/41.2
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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 54 days.

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(30) **Foreign Application Priority Data**

May 23, 2012 (JP) 2012-117105

(Continued)

(51) **Int. Cl.**
H04W 12/06 (2009.01)
H04L 29/06 (2006.01)

Primary Examiner — Dong-Chang Shiue
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(52) **U.S. Cl.**
 CPC **H04W 12/06** (2013.01); **H04L 63/0492** (2013.01)

(57) **ABSTRACT**

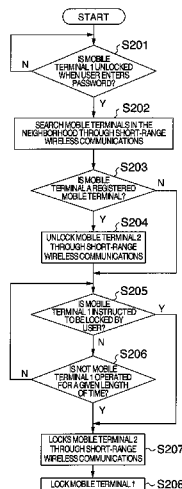
(58) **Field of Classification Search**
 CPC .. H04W 12/06; H04W 12/00; H04L 63/0492;
 H04L 9/32; H04M 1/66; H04B 7/00
 USPC 455/26.1, 41.2
 See application file for complete search history.

There is provided a mobile terminal capable of being protected against unauthorized use by a third party without using a dedicated key device. A plurality of mobile terminals are previously registered mutually. When unlocked among them, one mobile terminal communicates with another mobile terminal in a communication range of short-range wireless communications, unlocks the above another mobile terminal, and when out of the communication range, locks it again.

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20 Claims, 10 Drawing Sheets



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Office Action dated Jun. 30, 2015, which issued during the prosecution of Japanese Patent Application No. 2012-117105, which corresponds to the present application (partial English translation attached).

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FIG. 1

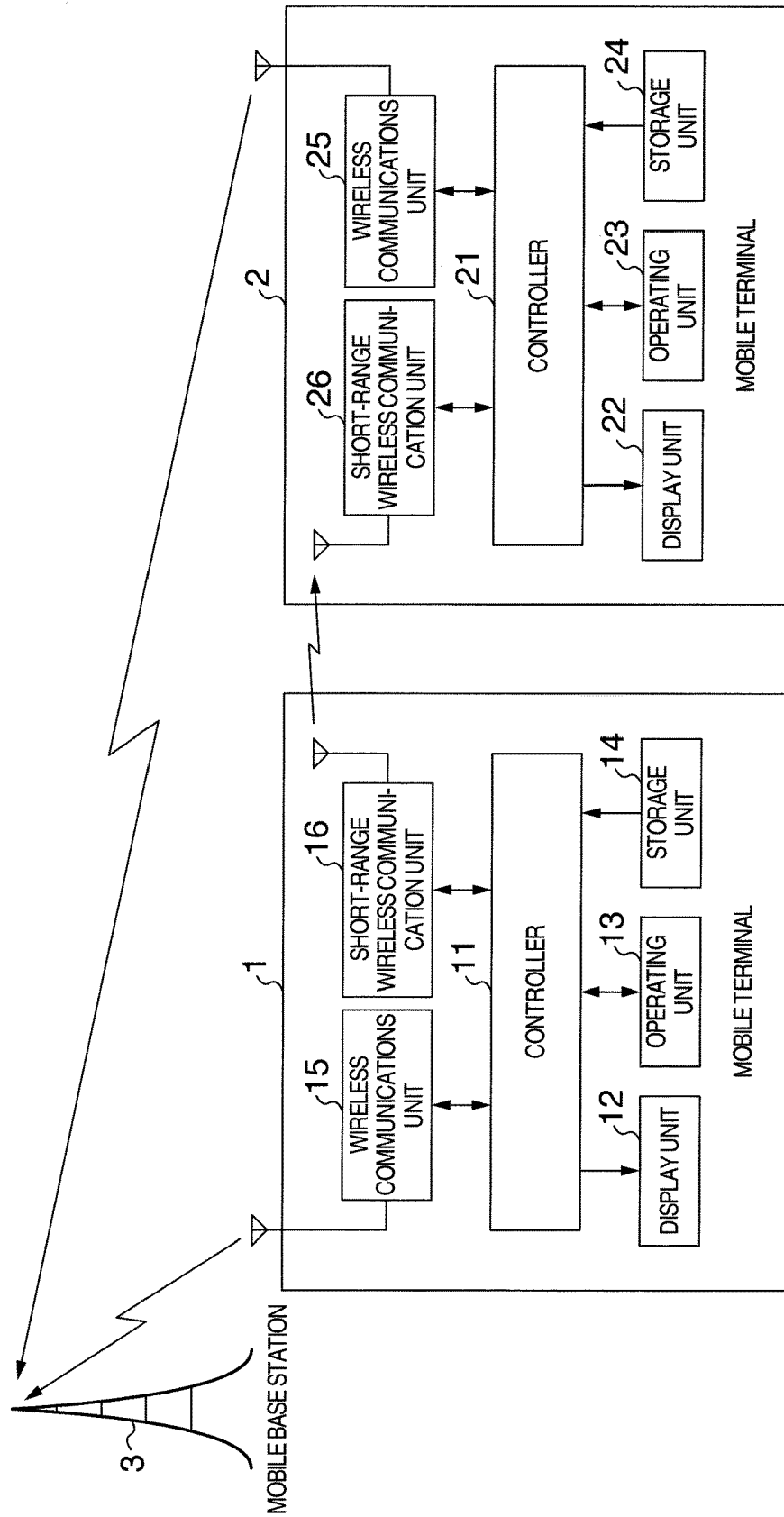
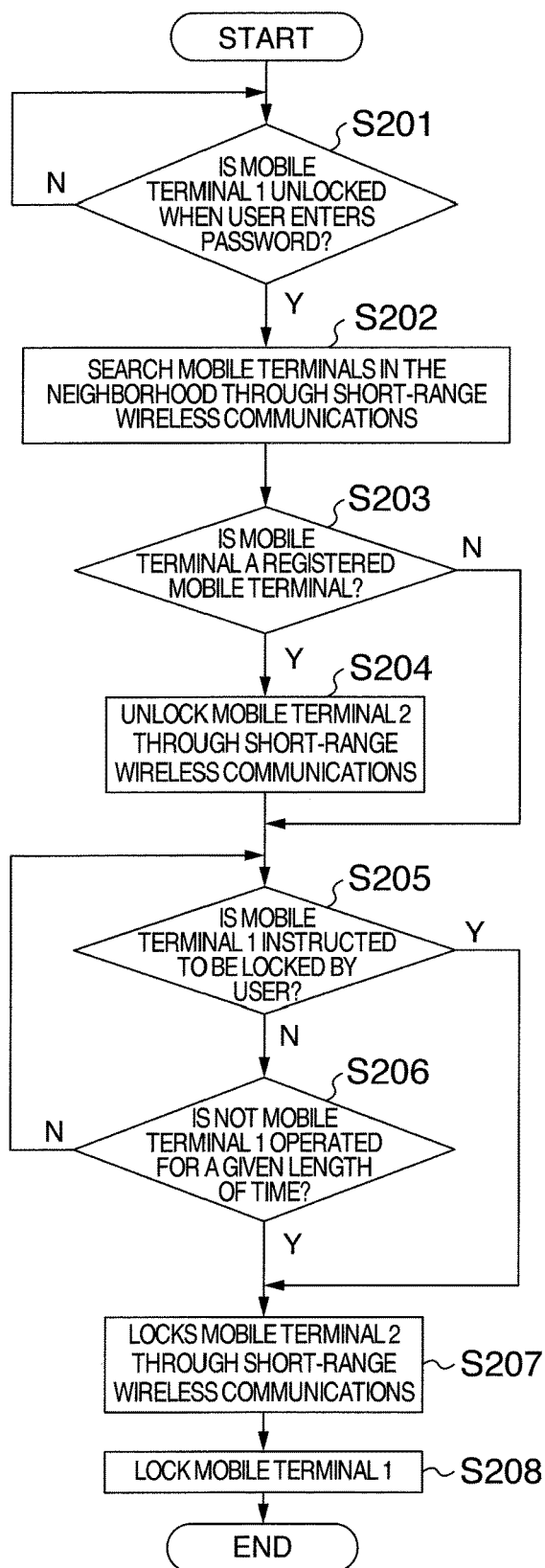


FIG. 2



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