US009410808B2

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

(10) **Patent No.: US 9,410,808 B2**
(45) **Date of Patent: Aug. 9, 2016**

(54) **APPARATUS AND METHOD FOR DETECTING LOCATION INFORMATION USING NAVIGATION ALGORITHM**

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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 190 days.

(21) Appl. No.: **13/978,616**

(22) PCT Filed: **Jan. 4, 2012**

(86) PCT No.: **PCT/KR2012/000065**

§ 371 (c)(1), (2), (4) Date: **Jul. 8, 2013**

(87) PCT Pub. No.: **WO2012/093842**

PCT Pub. Date: **Jul. 12, 2012**

(65) **Prior Publication Data**

US 2013/0282275 A1 Oct. 24, 2013

(30) **Foreign Application Priority Data**

Jan. 7, 2011 (KR) 10-2011-0001990

(51) **Int. Cl.**
G01C 21/00 (2006.01)
G01S 19/47 (2010.01)

(52) **U.S. Cl.**
CPC ***G01C 21/00*** (2013.01); ***G01S 19/47*** (2013.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

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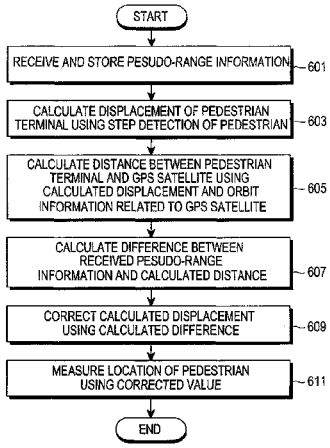
(57) **ABSTRACT**

A method and apparatus for detecting location information using a navigation algorithm are provided. The method includes searching for neighboring Global Positioning System (GPS) satellites, receiving, if at least one GPS satellite is detected, pseudo-range information from at least one of the detected GPS satellites and storing the received pseudo-range information, calculating a displacement of a pedestrian terminal based on step detection of a pedestrian, correcting the calculated displacement of the pedestrian terminal using the received pseudo-range information, and measuring the location of the pedestrian terminal is measured using the corrected displacement.

15 Claims, 6 Drawing Sheets