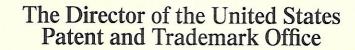
The United States of America



Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, or importing into the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2)or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

Michelle K. Lee

Director of the United States Patent and Trademark Office



US009114818B2

(12) United States Patent Kim

(54) INTEGRATED CONTROL SYSTEM FOR SERVICE DISTRIBUTION CAR USING WIRELESS COMMUNICATIONS AND SERVICE DISTRIBUTION CAR

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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 204 days.
- (21) Appl. No.: 13/891,918
- (22) Filed: May 10, 2013
- (65) **Prior Publication Data**US 2014/0333190 A1 Nov. 13, 2014
- (30) Foreign Application Priority Data

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(51) Int. Cl.

B62B 3/00 (2006.01) **B62B 5/00** (2006.01) **G05D 1/02** (2006.01)

(52) U.S. Cl. CPC *B62B 5/0076* (2013.01); *G05D 1/0287* (10) Patent No.:

US 9,114,818 B2

(45) Date of Patent:

Aug. 25, 2015

See application file for complete search history.

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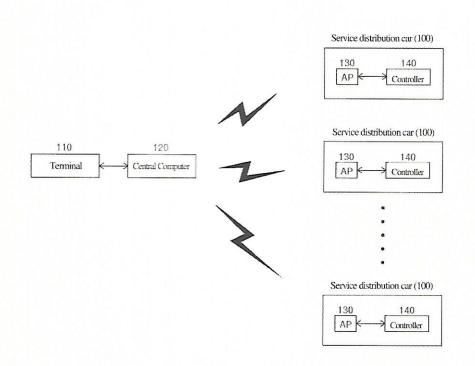
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57) ABSTRACT

Disclosed is a service distribution car including a heating cabinet and a cooling cabinet for providing meals, the service distribution car including: a body comprising a temperature controller for controlling a temperature of receiving space having the heating cabinet and the cooling cabinet; a plurality of driving wheels fixed to lower portions of the body and coupled to a driving unit for supplying rotating power; and a controller installed on a front surface of the body to control forward and rearward movement, a speed, and set temperatures of the service distribution car and to decelerate or stop the service distribution car when an abnormal travel situation or an emergency stop situation of the service distribution car occurs.

8 Claims, 4 Drawing Sheets



(2013.01)