



(12) **United States Patent**
Kim

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- (54) **SMART ELEVATOR SYSTEM**
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(57) **ABSTRACT**

A smart elevator system includes: an elevator provided in a building having multiple floors; a controller configured to control the elevator; a portable terminal used by a person to make a reservation for using the elevator and including a communicator for long-range communication and short-range communication; a server system configured to receive the reservation for using the elevator from the portable terminal by communicating with the portable terminal and control an operation of the elevator through the controller according to the reservation; and a portable terminal detector provided near a door of the elevator and configured to obtain a unique key of the portable terminal through the communicator, when the portable terminal used to make the reservation approaches it.

4 Claims, 4 Drawing Sheets

