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(54) **ENHANCING THE SECURITY OF SHORT-RANGE COMMUNICATION IN CONNECTION WITH AN ACCESS CONTROL DEVICE**

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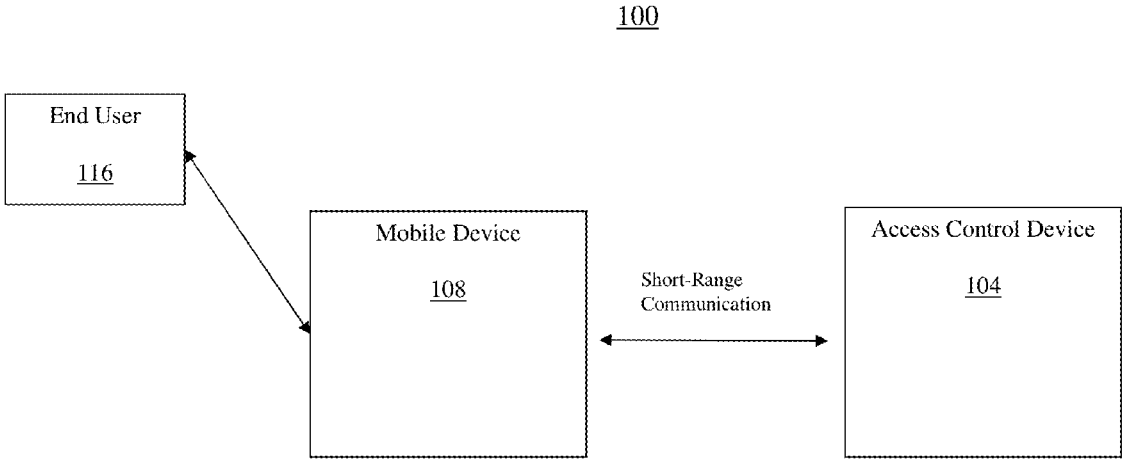
(57) **ABSTRACT**

An apparatus for enhancing the security of short-range communication in connection with an access control device may be provided. The system includes a mobile device and an application executing thereon. The application is configured to store a user-defined authentication for permitting short-range communication with the associated access control device and configured to control access to a secure location. The authentication is related to an action of an end user of the mobile device. The application is configured to determine when the devices are in proximity to one another, detect a movement of a user of the mobile device, and permit short-range communication between the devices when the devices are in proximity to one another and the detected movement is substantially similar to the defined authentication. The permitted short-range communication is related to information for permitting the user to access the secure location.