

ABSTRACT

According to an embodiment, an authentication device for authenticating a user includes a biological sensor, a storage unit, a communication interface, a detection mechanism, and a processor. The biological sensor acquires biological information. The detection mechanism detects attachment/detachment. The processor authenticates a user using the biological information, and when the authentication is successful, the processor then stores authentication information in the storage unit and turns off the authentication device. When the communication interface receives a magnetic field from an external device, the processor activates the authentication device using power from the communication interface, and upon receipt of an authentication command, if the storage unit stores the authentication information, the processor transmits an authentication signal indicating that authentication is successful to the external device. When the detection mechanism detects that the authentication device is removed from the user, the processor deletes the authentication information in the storage unit.