

Abstract

To acquire a keycard, the creation of whose clone is impossible, and a keycard-lock that is locked/unlocked by the keycard.

Key information constituted by randomly disposed metal granules, fiber pieces, a hologram chip, fluorescent substance granules, radioactive substance granules, or iridescent material, which is obtained by chance, is provided to a card. By inserting the keycard into the keycard-lock, and storing data based on the key information of the keycard in the keycard-lock, the keycard is registered in the keycard-lock. The data is encrypted by using a crypt key stored in the keycard-lock. By comparing the data of keycard inserted into the keycard-lock and the data obtained by decrypting the encrypted data registered in the keycard-lock, the keycard-lock is locked/unlocked. In addition, data based on the information of the keycard is encrypted and stored in a self-certifying keycard information chip installed in the keycard.

[Selected Drawing] Fig. 18