

Near field communication method and system

Abstract

A method and system for near field communication are provided. The method includes: a card reader transmitting a low-frequency time-varying magnetic field signal whose frequency is equal to or less than a highest frequency f_0 at which the system is non-adjusted working, and the signal carrying identifier information of the card reader; a mobile radio frequency device receiving and detecting the low-frequency signal, and magnifying it to be a voltage signal, and judging whether a terminal enters a valid distance interval or not; if the voltage signal is greater than or equal to a voltage threshold V_t , then the terminal entering the valid brushing card interval, and obtaining the identifier information of the card reader, and transmitting its own identifier information together with the identifier information of the card reader to the card reader through a radio frequency channel; the card reader receiving the transmitted information, and comparing whether the identifier information in the transmitted information is consistent with the identifier information of its own or not, if it is consistent, then performing a brushing card exchange with the mobile radio frequency device through the radio frequency channel. This solution realizes that the data communicating distance between a radio frequency communication terminal including a mobile radio frequency device and a card reader can be controlled reliably within a stated range, and an adjusting to the terminal is not needed.

Fig. 8