

ABSTRACT

CONTACTLESS RING-SHAPED SMART CARD

The invention relates to smart cards in the form of rings, operating on the basis of near-field communication (NFC) technology. The claimed article comprises a loop antenna connected to an NFC microchip on an electrically conductive support, and a single-piece housing having on the side adjacent the wearer's finger a rectangular recess with a height of not more than 5.0 mm and a depth of not more than 1.5 mm for receiving the antenna and the microchip, said recess being hermetically sealed across its height, and the thickness of the protrusions of the housing above the recess being from 1.0 to 1.5 mm. The result is that of reducing the weight and size of a ring having a single-piece housing and a recess on its inner side, while maintaining the performance of the components of the ring and the level of protection of said components against external mechanical effects.

Figure 3