ABSTRACT

A head assembly moving along a long side of a magnetic card (1a), more than one magnetic head (13a,13b) rotating in the head assembly for reading/writing data, a rotary transformer and a carriage with a card holding mechanism for keeping a card at a predefined position are provided in a card reader of the present invention. A rotating part of the rotary transformer (15) in the head assembly receives and sends a signal to the magnetic head (13a,13b) and a fixing part of the rotary transformer is connected to a reading/writing circuit. On the card (1a) of the present invention, which is usually rectangular, there are tracks defined by plural arcs. The arcs are on plural same-size circles whose centers are aligned on one line along the long side of the card. A magnetic card or an optical card can be used for the present invention.

(Fig. 1)

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