

ABSTRACT

ELECTRONIC SYSTEM FOR IDENTIFYING
A PLURALITY OF TRANSPONDERS

The present invention concerns a contact-free electronic system for identifying a plurality of transponders (TR_i) located in a communication volume (2) defined by an electromagnetic field (1) emanating from a read unit (20). Upon transmission by the read unit (20) of an interrogation signal (INT) each of the transponders (TR_i) selects a
5 response slot from among a set of response slots ($SLOT_k$ $k=1$ to n) during which it transmits a response signal (REP_i). The object of the present invention is in particular to control the problem of collisions between several transponders (TR_i) and to optimise as far as possible the transaction time necessary to identify all the interrogated transponders.

10

Figure 4