

RF-TAG READING SYSTEM AND RF-TAG READER/WRITER CONTROL SYSTEM, AND INTERFERENCE AVOIDANCE METHOD THEREFOR

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ABSTRACT

An RF-tag reading system is provided, in which a reading schedule for
reading RF-tags, without interference among RF-tag readers/writers, can
automatically be created. A schedule table is a table that stores the identifiers of
RF-tag readers/writers to which schedule control should be applied; fields for
10 storing the IDs of reference RF-tags are incorporated in the schedule table and
utilized during creation of the schedule table. A schedule creation unit controls the
RF-tag readers/writers to detect interference and then writes a reading schedule in
the schedule table. A schedule control unit reads RF-tag information from the RF-
tag readers/writers, while controlling timing in accordance with the contents of the
15 schedule table.

FIGURE 1