- at least one location adjacent to said location across from the second communication unit of said antenna,

each antenna further comprising a first state in which said antenna is activated and a second state in which said antenna is deactivated,

- a data processing unit connected to each second communication unit, the processing unit is configured to determine whether the location across from the second communication unit is occupied by an element by commanding the activation and deactivation of the antenna of each second communication unit according to a control law, wherein the control law depends on the position of the antennas of each second communication unit and the radiation-zone field of the antennas.

According to specific embodiments, the device comprises one or more of the following features, considered alone or according to any technically possible combinations:

- each second communication unit corresponding to a location, the control law is chosen so as to command, in parallel, the activation of the antenna of said second communication unit and the deactivation of the antenna(s) adjacent to said antenna, such that the antenna of each second communication unit is activated at time intervals different from the time intervals of the antennas adjacent to said antenna;

- the processing unit is able to determine the location to which the information collected by each antenna corresponds based on information communicated by the set of antennas;

- the bottom of each drawer is made from a material able to be traversed by radio waves emitted by the second communication units;

- each second communication unit is arranged above the corresponding location;

- each second communication unit is arranged below the bottom of the drawer of the corresponding location;

- each drawer unit comprises a plate positioned below the bottom of the drawer of each drawer unit and below the second communications units corresponding to the locations at the bottom of the drawer of said drawer unit, each plate being able to prevent the passage of radio waves emitted by all of the second communication units;

- each first communication unit is a radio identification tag and each second communication unit is a radio identification reader.

The invention also relates to a facility, comprising:

- an enclosure comprising an inner compartment, and

- a device as described above, the device being arranged in the inner compartment of the enclosure.

CLAIMS

1.- A device for storing elements, each element comprising a first wireless communication unit in which information relative to said element is stored, the device comprising at least two drawer units assembled on one another to form a vertical stack, each drawer unit comprising:

- a support comprising a housing,

- a drawer positioned in the housing of the support and able to slide relative to the support, the drawer comprising a bottom defining at least one location for receiving an element,

- for each location, at least one second wireless communication unit able to emit radio waves, each second communication unit being arranged across from the corresponding location, each second communication unit being suitable for communicating with the set of first communication units, each second communication unit comprising at least one antenna having a radiation-zone field, the radiation-zone field of each antenna covering at least:

  - the location across from the second communication unit of said antenna, and
  - at least one location adjacent to said location across from the second communication unit of said antenna,

each antenna further comprising a first state in which said antenna is activated and a second state in which said antenna is deactivated,

- a data processing unit connected to each second communication unit, the processing unit is configured to determine whether the location across from the second communication unit is occupied by an element by commanding the activation and deactivation of the antenna of each second communication unit according to a control law, wherein the control law depends on the position of the antennas of each second communication unit and the radiation-zone field of the antennas.

2.- The device according to claim 1, wherein, each second communication unit corresponding to a location, the control law is chosen so as to command, in parallel, the activation of the antenna of said second communication unit and the deactivation of the antenna(s) adjacent to said antenna, such that the antenna of each second communication unit is activated at time intervals different from the time intervals of the antennas adjacent to said antenna.

3.- The device according to claim 2, wherein the processing unit is able to determine the location to which the information collected by each antenna corresponds based on information communicated by the set of antennas.

4.- The storage device according to any one of claims 1 to 3, wherein the bottom of each drawer is made from a material able to be traversed by radio waves emitted by the second communication units.

5.- The device according to any one of claims 1 to 4, wherein each second communication unit is arranged above the corresponding location.

6.- The device according to any one of claims 1 to 4, wherein each second communication unit is arranged below the bottom of the drawer of the corresponding location.

7.- The storage device according to claim 6, wherein each drawer unit comprises a plate positioned below the bottom of the drawer of each drawer unit and below the second communication units corresponding to the locations at the bottom of the drawer of said drawer unit, each plate being able to prevent the passage of radio waves emitted by all of the second communication units.

8.- The device according to any one of claims 1 to 7, wherein each first communication unit is a radio identification tag and each second communication unit is a radio identification reader.

9.- A facility, comprising:

- an enclosure comprising an inner compartment, and
- a device according to any one of claims 1 to 8, the device being arranged in the inner compartment of the enclosure.

10.- The facility according to claim 9, wherein the elements are platelet containers, the enclosure being a platelet agitator.