

the communication apparatus of Claim 1.

11. A reminder apparatus comprising:

a storage that stores a private information table having a predetermined number of rows and a predetermined number of columns;

5 a generator that generates a random table having the predetermined number of rows and the predetermined number of columns;

a presenter that presents the generated random table to a user;

an acceptor that accepts from the user a key obtained by selecting and arranging elements in the presented random table in a selection order associated with
10 the user;

an identification unit that identifies the selection order associated with the user from the accepted key and the generated random table;

an acquirer that acquires private information from a column of elements obtained by selecting elements included in the private information table stored in the
15 storage from the private information table in the identified selection order, and arranging the elements in the identified selection order; and

an output unit that outputs the acquired private information.

12. A reminder apparatus comprising:

~~a storage that stores a private information table having a predetermined~~
20 ~~number of rows and a predetermined number of columns;~~

an acceptor that accepts from a user a key ~~associated with~~from which a selection order of selecting elements in ~~the a private information~~ can be uniquely derived;

an identification unit that identifies the selection order associated with the user
25 from the accepted key;

an updater that, when the private information table is not stored in a storage, the updater operationally,

generates the private information table having the predetermined number of rows and the predetermined number of columns,

5 divides a private information of the user into segments,

sets elements of the private information table with the segments in the identified selection order respectively,

sets other elements of the private information table at random, and

stores the private information table into the storage;

10 an acquirer that, when the private information table is stored in the storage,

~~acquires private information from a column of elements obtained by selecting elements included in~~ of the private information table ~~stored in the storage from the private information table~~ in the identified selection order, and arranging the selected elements in the identified selection order; and

15 an output unit that outputs the acquired private information.