

WHAT IS CLAIMED IS:

1. A portable electronic device which executes a command from an external device, the portable electronic device comprising:

5 a communication section which transmits and receives data with the external device; and

a control section;

wherein, when the control section transmits data collectively to the external device and receives a divided-message retransmission request which requests to divide
10 message and to retransmit divided messages from the external device,

the control section performs to

divide the data transmitted to the external device into divided data portions,

give an error detection code to each of the divided data portions,

15 transmit each of the divided data portions to which the error detection code is given to the external device by the communication section intermittently so as to make a predetermined non-transmission period,

detect an error notice showing a failure in receiving the divided data portion
and transmitted from the external device in the predetermined non-transmission period,
and

20 upon detecting the error notice, retransmit the divided data portion to which the error detection code is given and of which the external device failed in reception
~~transmitted last when the error notice is detecting.~~

2. The portable electronic device according to the claim 1, wherein the control section detects that a carrier wave transmitted from the external device is modulated as the error notice.

5 3. An IC card processing device which transmits a command to an IC card, the IC card processing device comprising:

a communications section which transmits and receives data with the IC card in a noncontact manner; and

a control section;

10 wherein, when the control section receives data collectively transmitted from the IC card and fails in receiving the data collectively transmitted from the IC card,

the control section performs to

transmit a divided-message retransmission request which requests to divide message and to retransmit divided messages to the IC card,

15 receive each of divided data portions of the data which the control section has failed in receiving, to which an error detection code is given and which is transmitted intermittently so as to make a predetermined non-transmission period from the IC card through the communication section;

20 judge whether the divided data portion is received normally based on the error detection code given to the divided data portion received in the predetermined non-transmission period, ~~and~~

transmit an error notice showing a failure in receiving the divided data portion to the IC card through the communication section when judging that the divided data portion is not received normally, in the pre-determined non-transmission period, and

upon transmitting the error notice, receive the divided data portion not received normally and retransmitted from the IC card.

4. The IC card processing device according to the claim 3, wherein the control section modulates a carrier wave to transmit to the IC card as the error notification.

5. A portable electronic device which executes a command from an external device, the portable electronic device comprising:

10 a communication section which transmits and receives data with the external device in a noncontact manner, and

a control section;

wherein, when the control section receives data collectively transmitted from the external device and fails in receiving the data collectively transmitted from the external device,

the control section performs to

transmit a divided-message retransmission request which requests to divide message and to retransmit divided messages to the external device,

20 receive each of a divided data portions of the data which the control section has failed in receiving, to which an error detection code is given and which is transmitted intermittently so as to make a predetermined non-transmission period, from the external device through the communication section,

judge whether the divided data portion was normally received based on the error detection code given to the divided data portion received in the predetermined non-transmission period, and

transmit an error notice showing a failure in receiving the divided data portion to the external device when judging that the divided data portion was not received normally, in the predetermined non-transmission period, and

5 upon transmitting the error notice, receive the divided data portion not received normally and retransmitted from the external device.

6. The portable electronic device according to claim 5, wherein the control section modulates a carrier wave which is transmitted to the external device as the error notice.

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7. The portable electronic device according to claim 5, wherein the control section transmits a second carrier wave to the external device as the error notice.

8. A processing device which transmits a command to a portable
15 electronic device, the processing device comprising:

 a communication section which transmits and receives data with the portable electronic device; and

 a control section;

 wherein, when the control section transmits data collectively to the portable
20 electronic device and receives a divided-message retransmission request which requests to divide message and to retransmit divided messages from the portable electronic device,

 the control section performs to

 divide the data transmitted to the portable electronic device into divided data
25 portions,

give an error detection code to each of the divided data portions,
transmit each of the divided data portions to which the error detection code is
given to the portable electronic device by the communication section intermittently so
as to make a predetermined non-transmission period,
5 detect an error notice showing a failure in receiving the divided data portion
and transmitted from the portable electronic device in the predetermined
non-transmission period, and
upon detecting the error notice, retransmit the divided data portion to which the
error detection code is given and of which the portable electronic device failed in
10 reception~~transmitted last when the error notice is detecting.~~