

WHAT IS CLAIMED IS:

1. A portable electronic device which executes a command from an external device, the electronic device comprising:
a communication section which transmits and receives data with the external
5 device; and
a control section;
wherein the control section performs to
divide data to transmit to the external device into divided data portions,
give an error detection code to the divided data portion,
10 transmit the divided data portion 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
from the external device in the non-transmission period, and
15 retransmit the divided data portion to which the error detection code is given
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
20 modulated as the error notice.

3. The portable electronic device according to claim 1, wherein the control section divides the data after the communication section failed in transmitting the data to the external device.

25

4. The portable electronic device according to the claim 1, wherein the control section divides the data when the communication section receives an instruction to divide the data to create divided data portions and to transmit the divided data portions from the external device.

5

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

a communications section which transmit and receive data with the IC card in a noncontact manner; and

10 a control section;

wherein the control section performs to

receive divided data portion 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;

15 judge whether the divided data portion is received normally based on the error detection code given to the divided data portion received in the 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
20 portion is not received normally, in the non-transmission period.

6. The IC card processing device according to the claim 5, wherein the control section modulates a carrier wave to transmit to the IC card as the error notification.

25

7. The IC card processing device according to claim 5, wherein the control section further perform to transmit an instruction to divide the data to create divided data portions and to transmit the divided data portions, to the IC card.

5 8. The IC card processing device according to the claim 5, wherein the control section performs to transmit an instruction to divide the data to create divided data portions and to transmit the divided data portions, to the IC card, after the communication section failed in receiving the data from the IC card.

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

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

a control section;

15 wherein the control section performs to

receive a divided data portion 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,

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

25

10. The portable electronic device according to claim 9, wherein the control section modulates a carrier wave which is transmitted to the external device as the error notice.

5 11. The portable electronic device according to claim 9, wherein the control section transmits a second carrier wave to the external device as the error notice.

12. The portable electronic device according to claim 9, wherein the control section further transmits an instruction which instruct to divide and transmit the data, to the external device through the communication section.

13. The portable electronic device according to claim 9, wherein the control section transmits the instruction which instructs to divide and transmit the data to the external device, after the communication section failed in receiving data from the external device.

14. A processing device which transmits a command to a portable electronic device, the processing device comprising:
a communication section which transmits and receives data with the portable electronic device; and
a control section;
wherein the control section performs to
divide data to transmit to the portable electronic device into divided data portions,
give an error detection code to the divided data portion,

transmit the divided data portion 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,
detect an error notice showing a failure in receiving the divided data portion
5 from the portable electronic device in the non-transmission period, and
retransmit the divided data portion to which the error detection code is given
transmitted last when the error notice is detecting.