

demodulator **419** demodulates the output of the adder **418** and outputs the demodulated one to e.g. the personal computer or the like.

[0191] Following will be explained about the operation. When the user touches the resistor array of the input device **410** with the finger or the like, a signal obtained by modulating an identification information in an FM manner is transmitted to the input device **410** by way of the human body **1**. The signal that is transmitted to the resistor array of the input device **410** is detected by the electrodes **411X1**, **411X2**, **411Y1**, and **411Y2**. Then, magnitude of the signal to be detected at the electrodes **411X1**, **411X2**, **411Y1**, and **411Y2** is substantially inversely proportional to a distance between a position where the user touches the input device **410** and each of the electrodes (i.e., resistor value).

[0192] The signal that is detected at the electrode **411X1** is amplified by the linear amplifier **412X1**. Likewise, the signal that is detected at the electrodes **X2**, **411Y1**, and **411Y2**, each is supplied to the linear amplifiers **412X2**, **412Y1**, and **411Y2** and the supplied signals are amplified by the amplifiers **412X2**, **412Y1**, and **411Y2**.

[0193] The low-pass filter **413** smoothes each of outputs of the linear amplifiers **412X1**, **412X2**, **412Y1**, and **412Y2** and outputs the smoothed ones to the A/D conversion unit **414**. The A/D conversion unit **414** converts each of the signals outputted from the low-pass filter **413** into digital data and outputs the digital one from the output terminal **417** to the personal computer. The personal computer detects an X coordinate from a ratio of the output of the linear amplifier **412Y1** to the output of the linear amplifier **412Y2** and detects a Y coordinate from a ratio of the output of the linear amplifier **412X1** to the output of the linear amplifier **412X2**.

[0194] The inverter **416X2** inverts a phase of the output signal of the linear amplifier **412 X2** and outputs the inverted signal to the differential amplifier **417X**. Likewise, the output signal of the linear amplifier **412 Y2** is supplied to the differential amplifier **417Y**, a phase of the output signal is inverted, and outputted the inverted output signal to the differential amplifier **417Y**.

[0195] The differential amplifier **417X** amplifies difference between the output of the linear amplifier **412X1** and the output of inverter **418X2** in a saturation manner and outputs the amplified one in the saturation manner as a logic level output to the adder **418**. Likewise, the differential amplifier **417Y** amplifies difference between the output of the linear amplifier **412Y1** and the output of inverter **418Y2** in a saturation manner and outputs the amplified one in the saturation manner as a logic level output to the adder **418**. Namely, the differential amplifiers **417X** and **417Y** outputs the signal as shown in FIG. 22B, when the signal as shown in FIG. 22A as above-mentioned is inputted.

[0196] The adder **418** adds the output of the differential amplifier **417X** to the output of the differential amplifier **417Y** and outputs the added one to the demodulator **419**. The demodulator **419** demodulates the output signal from the adder **418** and outputs identification information of the transmitter **221** (i.e. an information that is expressed in a logical manner as shown in FIG. 22B) from the output terminal **422** to a personal computer.

[0197] As above-mentioned, detection of the coordinate at which the user touches the input device **410** having the

resistor array in a manner and the identification of the user (transmitter **221**) becomes possible.

[0198] Optionally, in the present specification, a step of writing a program relating to performance of the present invention to be recorded on a recording medium includes not only a process to be performed along the written order in a time-sequential manner but also a process to be performed in a parallel manner or a discrete manner.

[0199] Further, therein, the "system" denotes a whole of an apparatus constructed by a plurality of devices or units.

What is claimed is:

1. An information processing apparatus comprising:

generator means for generating an alternating current signal; and

inducing means for inducing said alternating current signal generated by said generator means to a human body.

2. The information processing apparatus according to claim 1, wherein

said generator means generates said alternating current signal that can be identified with respect to an alternating current signal generated by another information processing apparatus.

3. An information processing apparatus comprising:

inducing means extending in a first and a second directions and inducing an inducing voltage from a neighboring human body;

inducing voltage detection means for detecting said inducing voltage induced by said inducing means; and

coordination detecting means for detecting a coordination at which said inducing means induces said inducing voltage based on said inducing voltage detected by said inducing voltage detection means.

4. The information processing apparatus according to claim 3, further comprising:

frequency identification means for identifying a frequency of said inducing voltage.

5. The information processing apparatus according to claim 4, wherein

said frequency identification means identifies a frequency of a commercial power supply as said frequency of said inducing voltage.

6. The information processing apparatus according to claim 4, wherein

said frequency identification means identifies a frequency of a signal outputted from the other information processing apparatus worn on a human body as said frequency of said inducing voltage.

7. The information processing apparatus according to claim 6, further comprising:

reception means for receiving information transmitted from said other information processing apparatus worn on said human body.

8. The information processing apparatus according to claim 6, further comprising: