

current average value, or adjusts the intensity of vibrations by adjusting the output of the motor drive unit **180** at step **S260**.

[**0036**] **FIG. 3** is a flowchart showing a process of measuring the motion of the mobile communication terminal in idle state and automatically switching the mobile communication terminal to a manner mode if it is determined that the motion of the mobile communication terminal is relatively small, or does not exit in accordance with the present invention.

[**0037**] Since a step of automatically switching the mobile communication terminal to the manner mode is not necessary in the case where the current mode of the mobile communication terminal at a standby state is the manner mode, the control unit **140** checks whether the current mode of the mobile communication terminal is the manner mode at step **S310**.

[**0038**] If the current mode of the mobile communication terminal is not the manner mode, the control unit **140** detects the motion of the mobile communication terminal and reads an output value. If the motion of the mobile communication terminal exists at the above step, the current mode is maintained, and if the motion of the mobile communication does not exist, the process proceeds to step **S330** at step **S320**.

[**0039**] The control unit **140** causes the mobile communication terminal to be switched to the manner mode if the mobile communication terminal is placed horizontally, and if not, the process proceeds to step **S340** at step **S330**.

[**0040**] The control unit **140** checks whether the predetermined period of time of the timer has elapsed at step **S350**. If the motion of the mobile communication terminal has not existed while the predetermined period of time has elapsed, the control unit **140** switches the mobile communication terminal to a manner mode at step **S360**.

[**0041**] If the motion of the mobile communication terminal exists in the manner mode at step **S370**, the control unit **140** reads a value from the motion detection unit **160**, cancels the manner mode and switches the mobile communication terminal to an original mode at **S380**.

[**0042**] As described above, the present invention evaluates the circumstances of the user by measuring the motion of the mobile communication terminal, and automatically adjusts the volume of a ring tone or the intensity of vibrations depending on the motion of the mobile communication terminal. As a result, the mobile communication terminal can notify the user of the reception of a call by issuing a high output when the user cannot perceive the normal ring tone or vibrations of the mobile communication terminal because the user is in a loud place or in motion. In contrast, the mobile communication terminal can notify the user of the reception of a call through a low output when the user is located in a quiet area. Furthermore, when a large volume ring tone or high intensity vibrations are not necessary as in the case where the motion of the mobile communication terminal exists little or the mobile communication terminal is laid on a desk, the mobile communication terminal is automatically switched to a manner mode, thus preventing mistakes due to a large volume ring tone or high intensity vibrations.

[**0043**] Although the preferred embodiments of the present invention have been disclosed for illustrative purposes,

those skilled in the art will appreciate that various modifications, additions and substitutions are possible, without departing from the scope and spirit of the invention as disclosed in the accompanying claims.

What is claimed is:

1. A mobile communication terminal, comprising:
 - a motion detection unit configured to detect and output a value in proportion to the motion of the mobile communication terminal;
 - a memory unit configured to store a program that has an algorithm for adjusting a call alerting signal according to the output value of the motion detection unit, and data that is used to execute the program; and
 - a control unit configured to adjust the call alerting signal in proportion to a degree of the motion of the mobile communication terminal represented by the output value of the motion detection unit.
2. The mobile communication terminal as set forth in claim 1, wherein the motion detection unit is a gyro sensor.
3. The mobile communication terminal of claim 1, wherein the call alerting signal is one of a ring tone and a vibration.
4. A call alerting method of a mobile communication terminal, comprising:
 - determining whether an instruction for a call alerting signal exists;
 - detecting at least one value in proportion to the motion of the mobile communication terminal from a motion detection unit if the instruction exists; and
 - adjusting the call alerting signal according to the at least one value from the detecting.
5. The method as set forth in claim 4, wherein the at least one value in proportion to the motion of the mobile communication terminal is an average of values output from the motion detection unit for a predetermined period of time.
6. The call alerting method of claim 4, wherein the call alerting signal is one of a ring tone and a vibration of the mobile communication terminal.
7. A call alerting method of a mobile communication terminal, comprising:
 - determining whether an instruction for a call alerting signal exists;
 - detecting at least one value in proportion to the motion of the mobile communication terminal from a motion detection unit if the instruction exists; and
 - selecting one of various types of ring tones according to the at least one value from the detecting.
8. The method as set forth in claim 7, wherein the at least one value in proportion to the motion of the mobile communication terminal is an average of values output from the motion detection unit for a predetermined period of time.
9. The call alerting method of claim 7, wherein the call alerting signal is one of a ring tone and a vibration of the mobile communication terminal.
10. A call alerting method of a mobile communication terminal, comprising:
 - determining whether an instruction for a call alert signal exists;