and receives the speed signal in step s**2-2**. The processing and control circuit **5** checks whether the speed signal indicates a high speed by comparing the reference. If the speed signal indicates the high speed, the processing and control circuit **5** checks whether there is the hands-free mount detection signal in step s**2-4**. If there is the hands-free mount detection signal from the hands-free mount detection circuit **13**, the processing and control circuit **5** sets the flag of the hands-free mode. The hand-free mode is a mode of operation in which gains of the amplifier **27***a* and **27***d* for the microphone **24** and the receiver **7** are increased. Then, processing proceeds to step s**2-5**.

If there is no hands-free mount detection signal, processing directly proceeds to step s**2-5**.

In step s**2-5**, the processing and control circuit **5** checks whether there is the vehicle mount adapter detection signal in step s**2-5** from the vehicle mount adapter detection circuit **4**. If there is the vehicle mount adapter detection signal, processing proceeds to a processing A, that is, a subroutine s**2-9**. If there is not the vehicle mount adapter detection signal, processing proceeds to a processing B, that is, a subroutine s**2-10**.

FIG. **5** depicts a flow chart of this embodiment showing the processing A s**2-9**.

In the processing A s**2-9**, the processing and control circuit **5** checks whether the operator is communicating in step s**3-1**. If the operator is communicating, the processing and control circuit **5** generates a sound alarming message.

If the operator is not communicating, in step s**3-3** the processing and control circuit **5** executes all of or some of functions in accordance with the flags which have been set from the operation panel **8** in the non-volatile memory **12**. The functions are neglecting the call, generating a sound alarming message, displaying a character alarming message, generating an alarming sound, transmitting sound and character messages, effecting automatically answering, operating the vibrator **9**, receiving a character message in the paging signal, detecting the telephone number and storing it in the non-volatile memory **12** for one-touch dialing, or holding the line.

FIG. **6** depicts a flow chart of this embodiment showing the processing B s**2-10**.

In the processing B s**2-10**, it is assumed that the operator is getting on a train, a bus, or the like.

In step s**4-1**, the processing and control circuit **5** checks whether the operator is communicating. If the operator is communicating, the processing and control circuit **5** generates the sound alarming message to the operator in step s**4-2**.

If the operator is not communicating, in step s**4-3**, the processing and control circuit **5** executes all of or some of functions in accordance with the flags which have been set from the operation panel **8** in the non-volatile memory **12**. The functions are operating the sound processing circuit **27** to decrease the sound level of the alarm informing the arrival of the call, generating the sound alarming message to provide the caution, generating the alarm sound, operating the vibrator.

In step s**4-3** the processing and control circuit **5** further operates the timer **5***a*.

In step s**4-4**, the processing and control circuit **5** checks whether there is a key input. If there is no key input, the processing and control circuit **5** checks whether the predetermined time interval set in the timer **5***a* has expired. If the time interval has expired, in step s**4-6**, the processing and control circuit **5** executes all or some of functions in accordance with the flags in the non-volatile memory **12**. The functions are neglecting the call, transmitting the sound message to the caller, effecting an automatic answering operation, transmitting or receiving a character message through the paging signal, detecting the telephone number and storing it in the non-volatile memory **12** for one-touch dialing.

In step s**4-4**, if there is a key input, the processing and control circuit **5** increases the gain of the microphone **24** by operating the sound processing circuit **27** to decrease a speech level of the operator in step s**4-7**.

In step s**4-4**, if there is no key input, the processing and control circuit **5** executes step s**4-4** until the predetermined interval set to the timer **5***a* expires. If the predetermined interval expired, the processing and control circuit **5** effects all of or some of functions such as neglecting the call, transmitting a sound message, automatic answering, transmitting or receiving character message, and detecting the telephone number of the caller and storing it in the non-volatile memory for the one touch dialing in steps s**4-6**.

In this embodiment, there is only one reference compared with the speed signal. However, the speed may be classified such that a high speed, a middle speed, and a low speed are defined. The security operations in steps s**1-4**, s**3-3**. s**4-3**. s**4-6**, s**4-7** may be executed in accordance with the plurality of classified speeds.

What is claimed is:

1. A radio communication apparatus comprising:

radio wave signal communication means for receiving from and transmitting a radio wave signal to a base station;

communication means for providing communication to an operator through said radio wave signal receiving and transmission means;

speed detecting means for detecting a speed of said radio communication apparatus to said base station from an output of said radio wave signal communication means;

comparing means for comparing the detected speed with a reference; and

control means responsive to said comparing means for controlling said communication means when the detected speed exceeds said reference,

wherein said communication means comprises call detection means for detecting a call from said base station and sound processing means including first amplifying means for receiving and amplifying a first sound from an operator with a first gain and second amplifying means for amplifying a sound signal from said base station with a second gain, wherein said control means increases first and second gains to provide a hands-free communication to said operator in response to the detected call when the detected speed exceeds said reference.

2. A radio communication apparatus comprising:

radio wave signal communication means for receiving from and transmitting a radio wave signal to a base station;

communication means for providing communication to an operator through said radio wave signal receiving and transmission means;

speed detecting means for detecting a speed of said radio communication apparatus to said base station from an output of said radio wave signal communication means;