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METHOD OF CONTROLLING DEVICES USING SUB-VOCAL COMMANDS

ABSTRACT

Devices, systems and methods are disclosed that enable voice commands via sub-vocal communication which are directed to a wearable device and sent to a user device to execute the command. The user device could be a phone, tablet or other device configured to receive the commands. This system includes a device worn or attached to the user that detects user commands that are whispered or otherwise subvocalized. The detected voice information is communicated to the user's phone or other device using wireless communication such as Wi-Fi, Bluetooth or NFC and executed. The system and method prevents the user from being overheard or the command being interfered with, by other conversations. The commands are communicated to the device which is away from the user.

BACKGROUND

At present, when users voice-control their phone or other device, there are often a few associated problem (e.g. background noise), which interferes with the communication to the phone. The user does not want to be overheard or interfere with other conversations around him/her. Further, the phone or device doing the processing may not be near the user (e.g. may be in another room).

DESCRIPTION

Devices, systems and methods are disclosed that enables voice commands via sub-vocal communication which are directed to a wearable device and sent to a user device to execute the command. The user device could be a phone, tablet or other appliance configured to receive the commands. The system includes a device worn or attached to the user that may recognize or detect a user's voice when commands are whispered or subvocalized. The detected voice

information is communicated to the user's phone or other device using wireless communication such as Wi-Fi, Bluetooth or NFC as shown in FIG. 1. The command is then executed on the phone or other device.

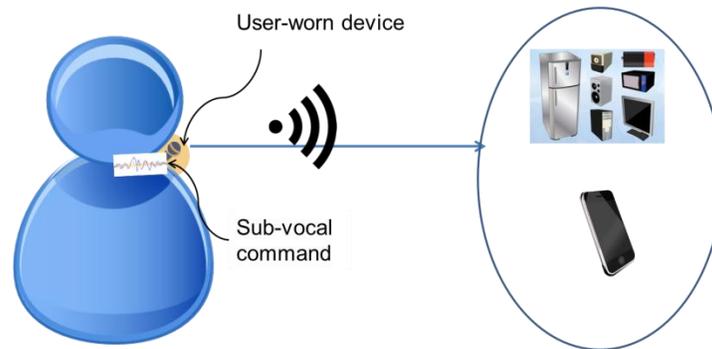


FIG. 1: System to detect and communicate sub-vocal commands to a device

The detection and communication of soft sound /sub-vocal commands may be implemented through a worn piece of electronics that is near the user's mouth or vocal cords, e.g. a necklace with embedded microphone, headphone, or electronics that are attached to the ear or jawbone. Alternatively, this device could even be an embedded element e.g. a subcutaneous implant in the jaw or lips.

The system and method prevents the user from being overheard or interfered with by background noise. The commands are communicated to the phone or device which is away from the user (e.g. appliance or the gadget may be in another room).