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(54) Title: INTRAORAL DEVICE CONTROL SYSTEM

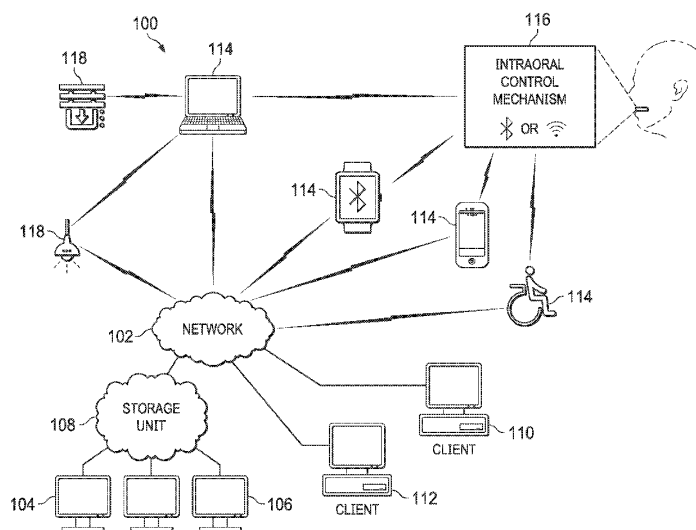


FIG. 1

(57) Abstract: Mechanisms are provided to implement an intraoral control mechanism that allows a user to control an operation of a computer system or an electronic device. The intraoral control mechanism detects a strain based on a tongue of a user moving a control mechanism away from a fixed position; transduces the detected strain into a control signal; amplifies an amplitude of the control signal thereby producing an amplified control signal; converts the amplified control signal to a digital input signal; modulates the digital input signal onto a transmission frequency wave; and transmits the digital input signal to the computer system. The computer system may then either execute the digital control signal on the computer system itself to perform an operation or transmit the digital control signal to the electronic device so as to operate as indicated by the digital control signal. The digital input signal is saved for characterization of the user.

[Continued on next page]

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