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(54) Title: SYSTEM AND METHOD FOR MONITORING A PLURALITY OF BIO-SIGNALS, AND A GATEWAY DEVICE OPERABLE THEREIN

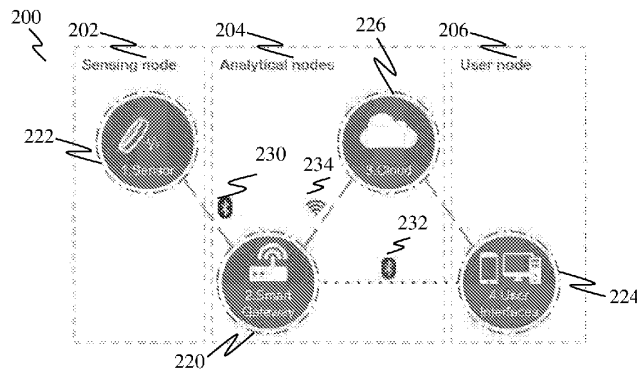


FIG. 2

(57) Abstract: According to embodiments of the present invention, a gateway device operable in a system for monitoring a plurality of bio-signals, such as heart or respiratory sounds, is provided. The gateway device includes a receiver unit configured to receive data and reconstruct the received data to obtain a digital sound signal representative of the bio-signals; a processing unit configured to determine at least one biometric from the digital sound signal and form a digital signal representative of the bio-signals and the determined at least one biometric, and to reconstruct the digital signal into two or more data segments; and a transmitter unit configured to transmit information including the two or more data segments to an external processing module for further processing. According to further embodiments, a system and a method for monitoring a plurality of bio-signals are also provided.

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