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(54) **SYSTEM AND METHOD FOR OBTAINING BODILY FUNCTION MEASUREMENTS USING A MOBILE DEVICE**

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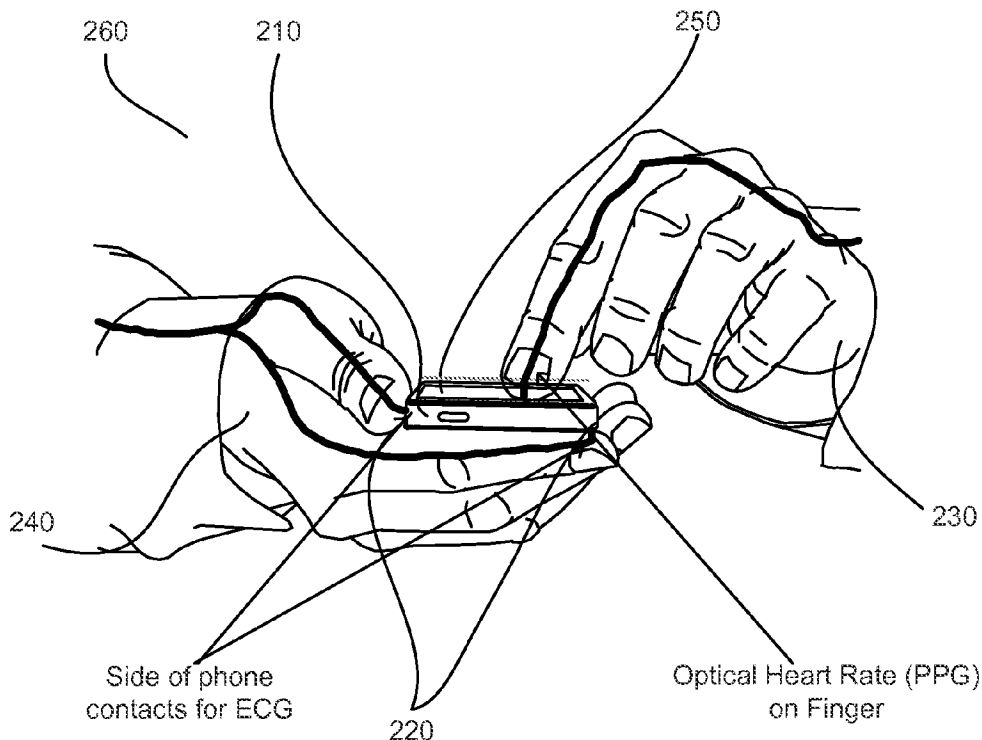
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(57) **ABSTRACT**

Methods, systems, computer-readable media, and apparatuses for obtaining at least one bodily function measurement are presented. A mobile device includes an outer body sized to be portable for user, a processor contained within the outer body, and a plurality of sensors physically coupled to the outer body. The sensors are configured to obtain a first measurement indicative of blood volume and a second measurement indicative of heart electrical activity in response to a user action. A blood pressure measurement is determined based on the first measurement and the second measurement. The sensors also include electrodes where a portion of a user's body positioned between the electrodes completes a circuit and a measurement to provide at least one measure of impedance associated with the user's body. A hydration level measurement is determined based on the measure of impedance.



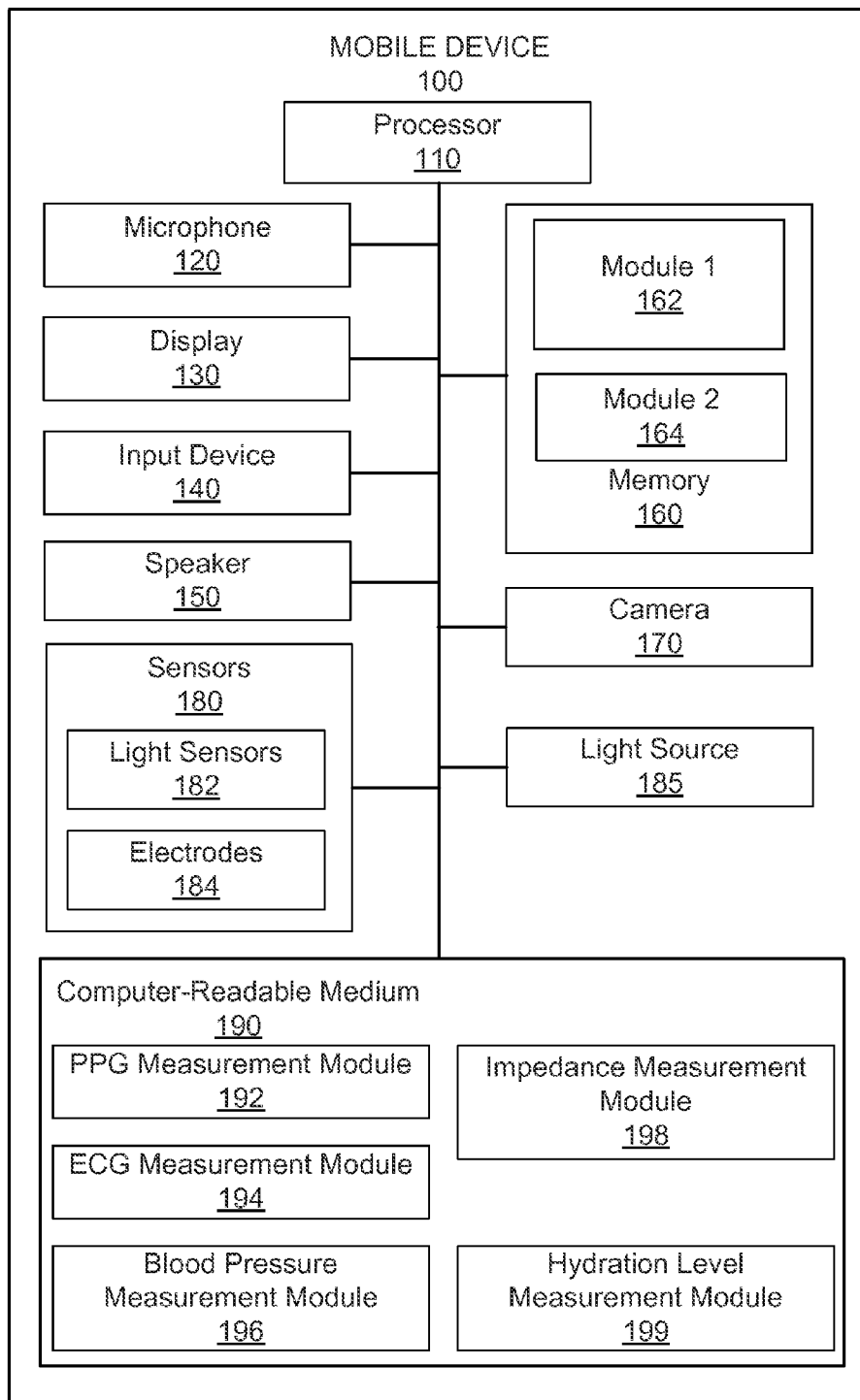


FIG. 1

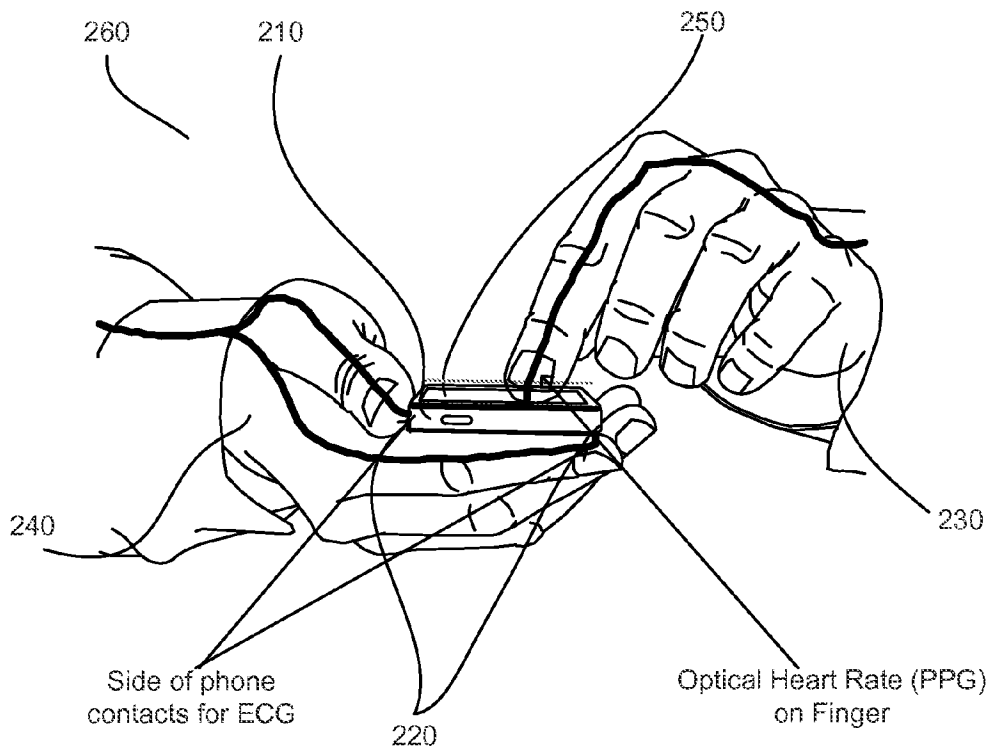


FIG. 2

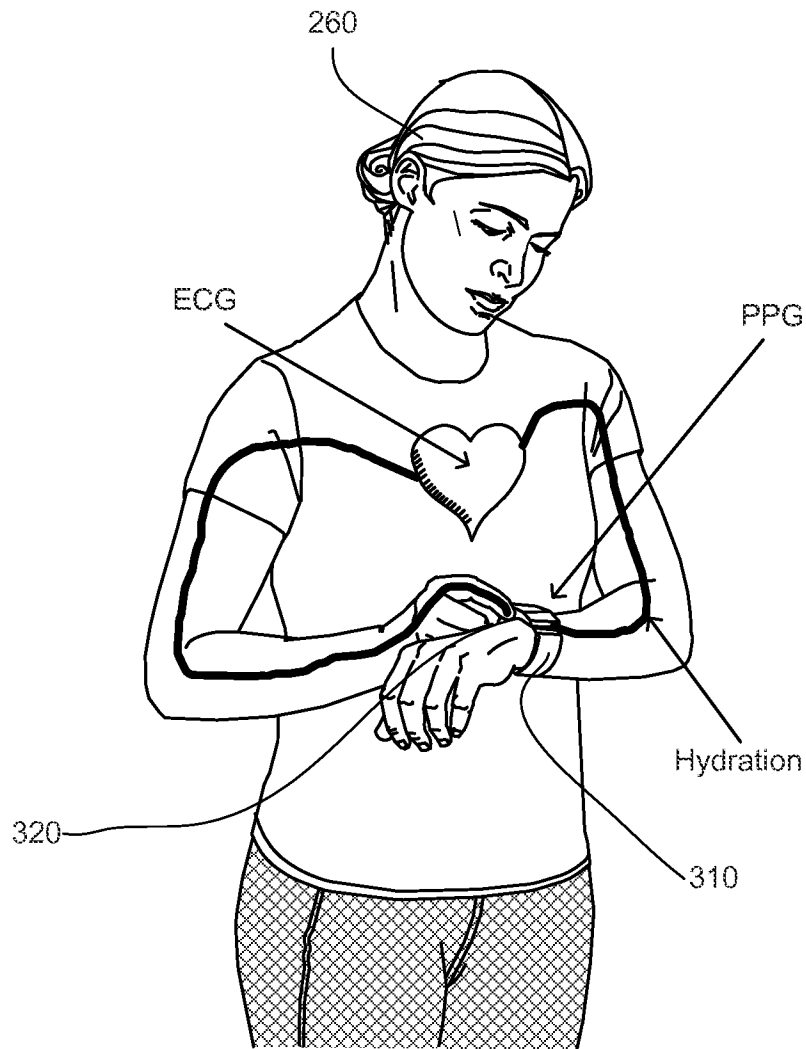


FIG. 3

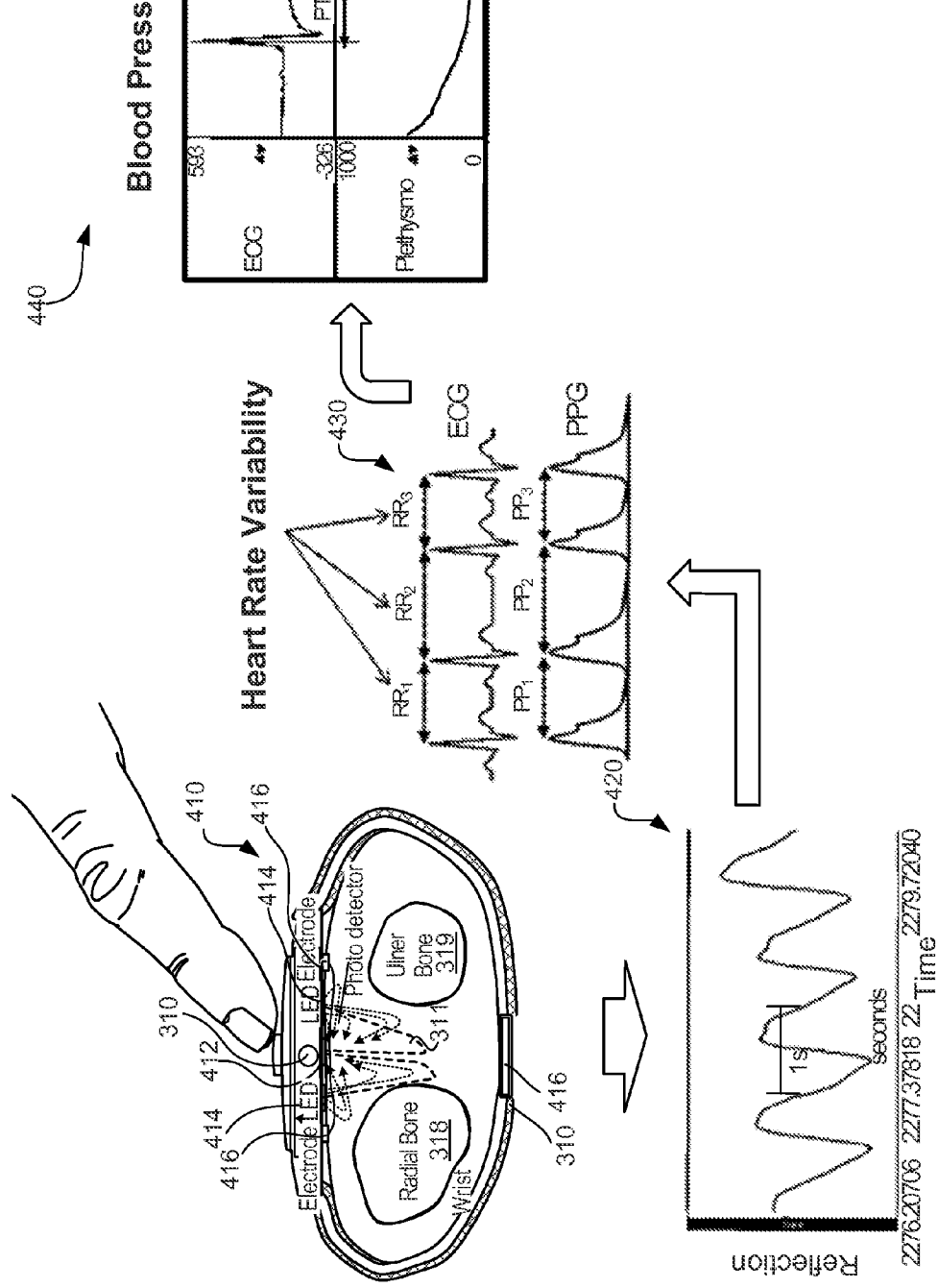


FIG. 4

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