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(54) **DIAGNOSTIC METHOD AND APPARATUS USING LIGHT**

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(57) **ABSTRACT**

A diagnosis method and apparatus for measuring blood hemoglobin concentration, oxygen saturation, pulse rate, respiration rate, or degree of aging of blood vessels using light includes an input/output unit for receiving a command for measurement from a user and for providing information on the result of a measurement to the user; a control unit for receiving the command for measurement from the input/output unit and for generating a control signal; a light generating unit for generating at least two light beams for measurement according to the control signal; a light receiving unit for receiving the light beams transmitted through an object that is subject to measurement and for converting the received light beams into electrical signals; and a data processing unit for processing the electrical signals received from the light receiving unit and for outputting information on the result of a predetermined measurement.

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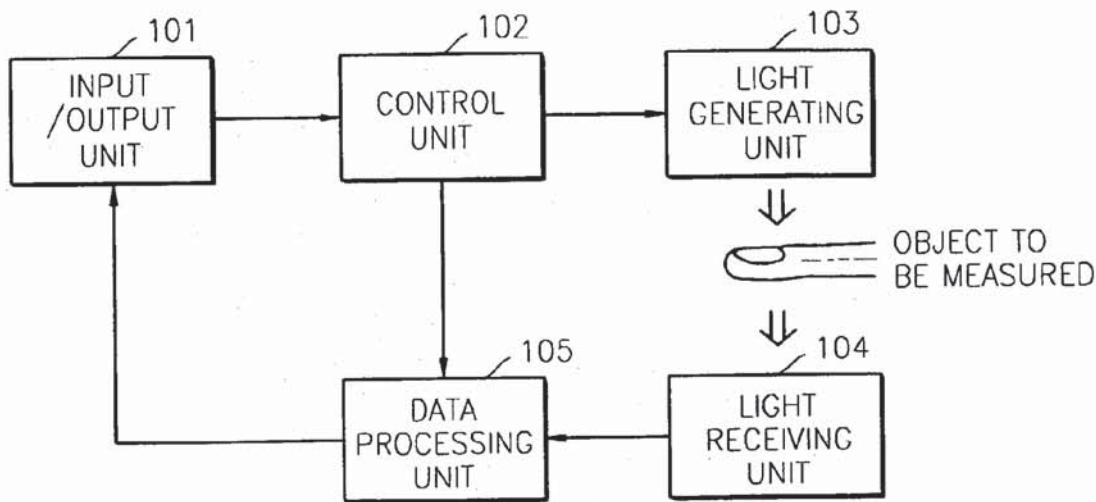


FIG. 1

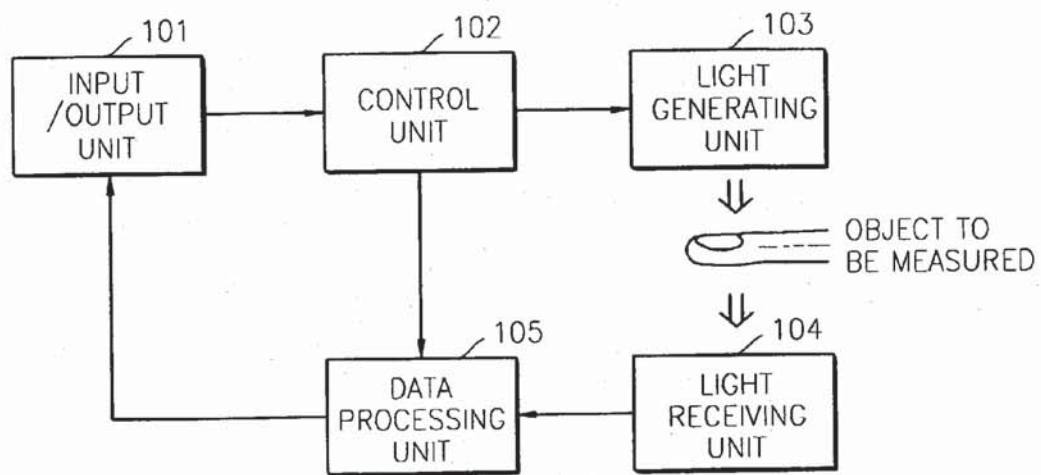


FIG. 2

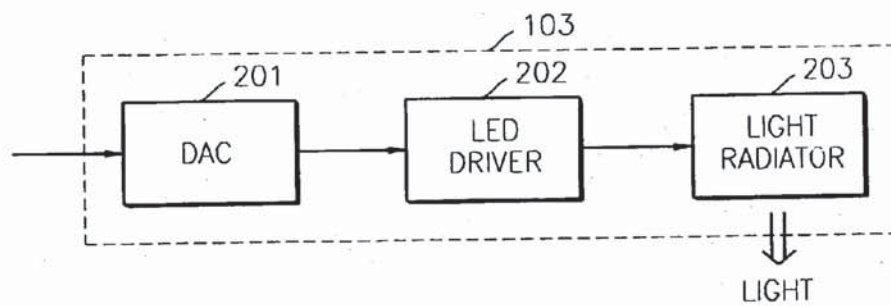


FIG. 3

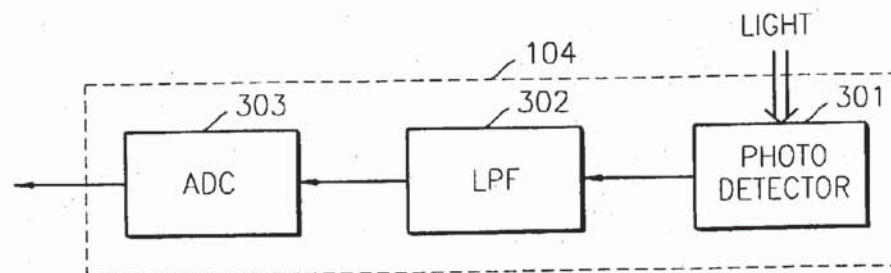


FIG. 4

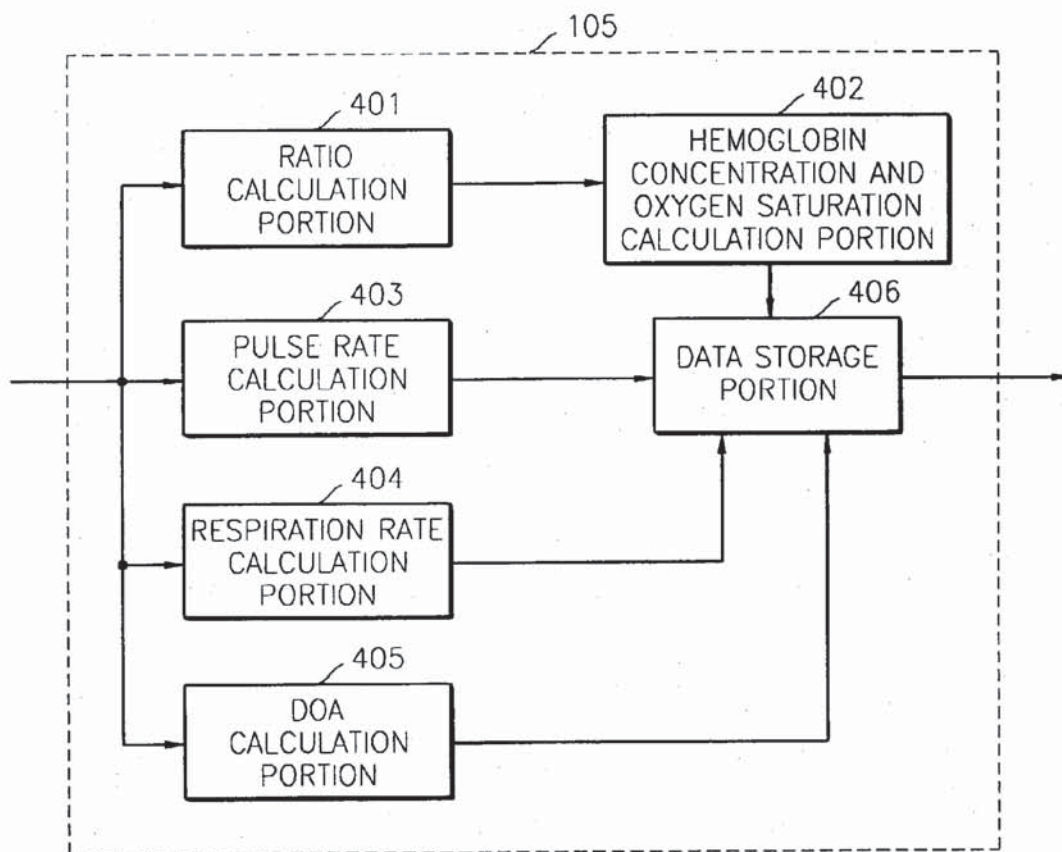


FIG. 5

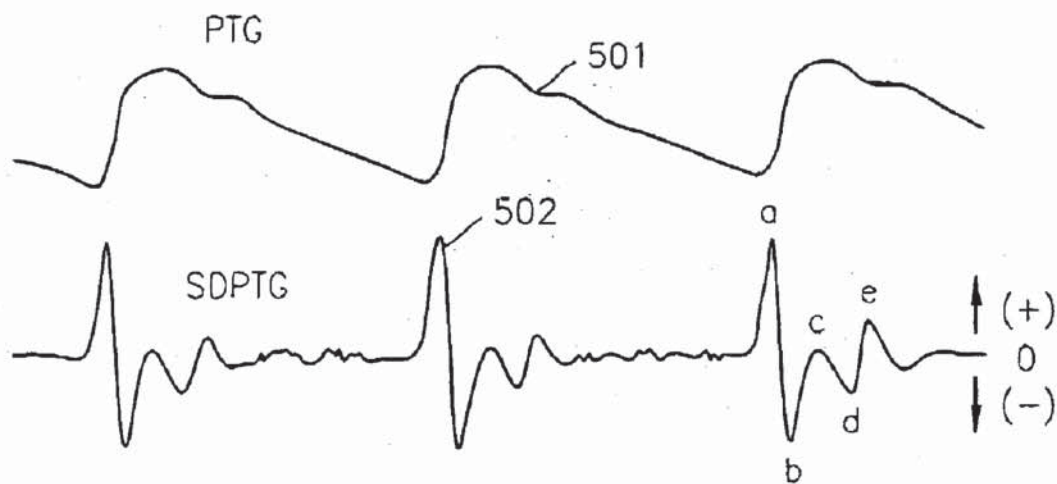
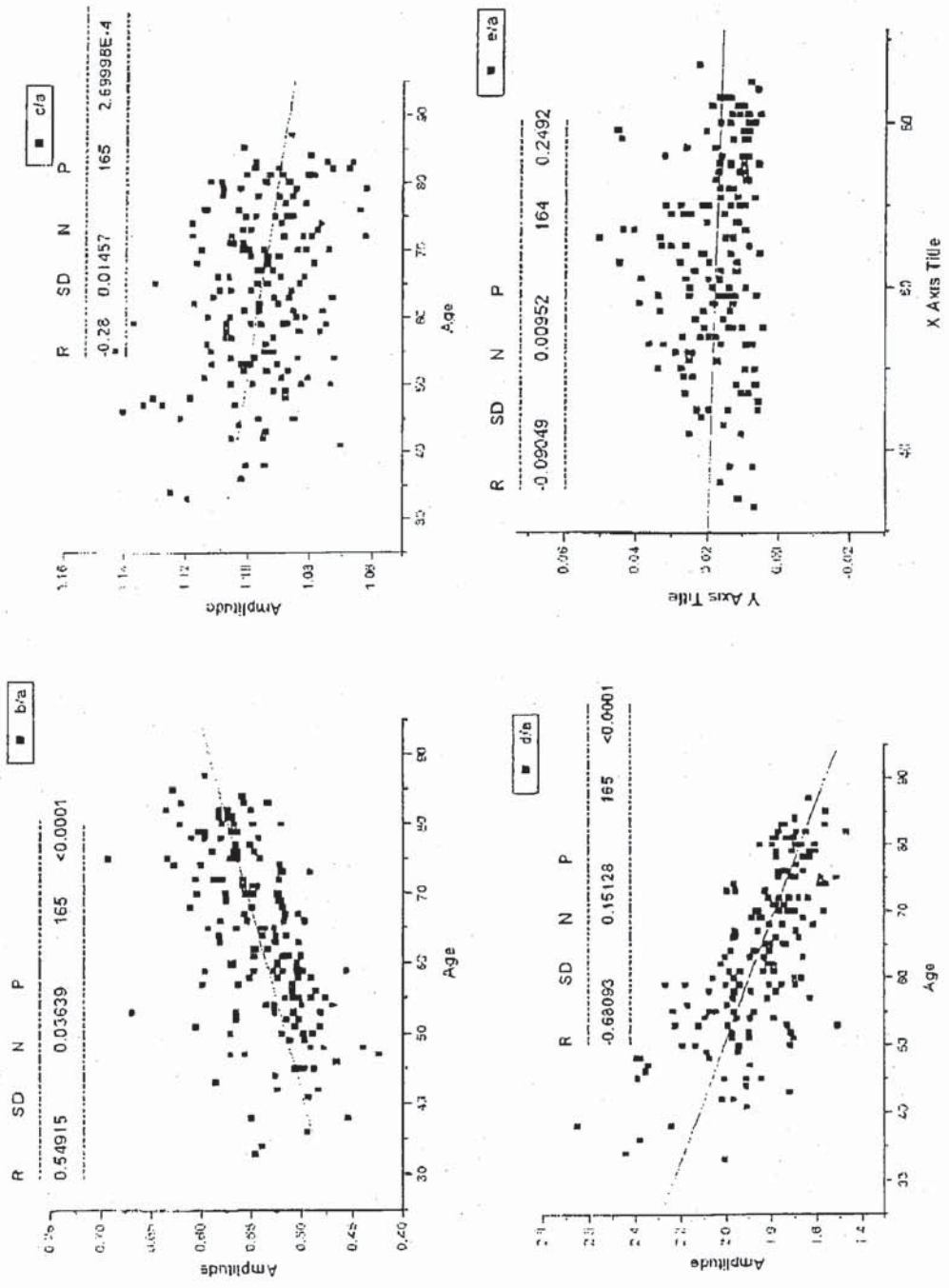


FIG. 6



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