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(54) **SYSTEM AND METHOD FOR A SELF-CALIBRATING NON-INVASIVE SENSOR**

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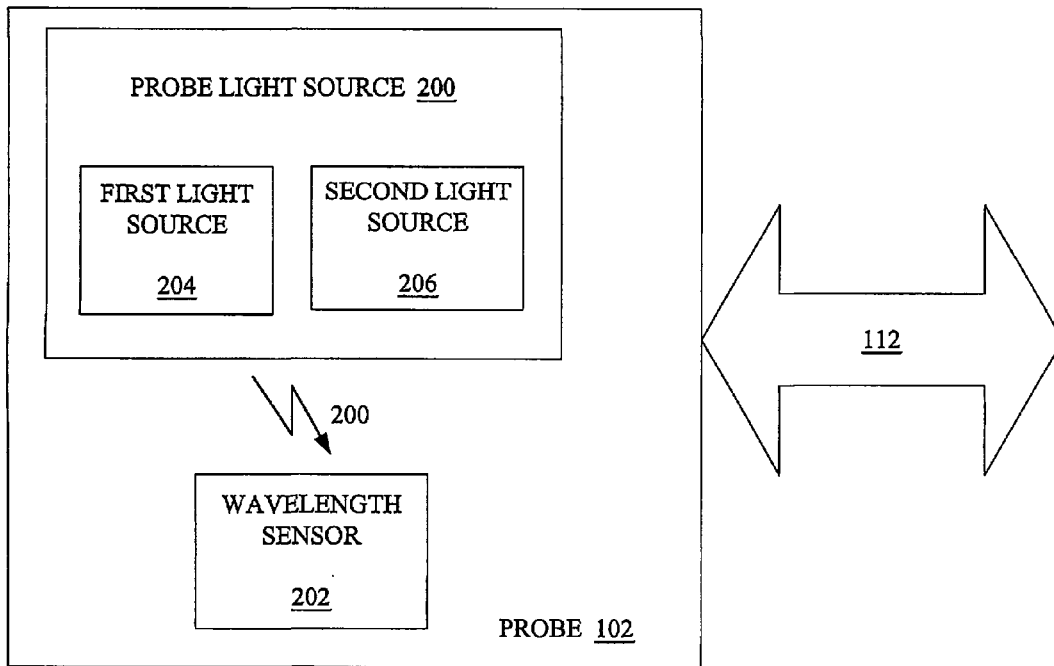
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(57) **ABSTRACT**

A non-invasive emitter-photodiode sensor which is able to provide a data-stream corresponding to the actual wavelength of light emitted thereby allowing calibration of the sensor signal processing equipment and resulting in accurate measurements over a wider variation in emitter wavelength ranges.

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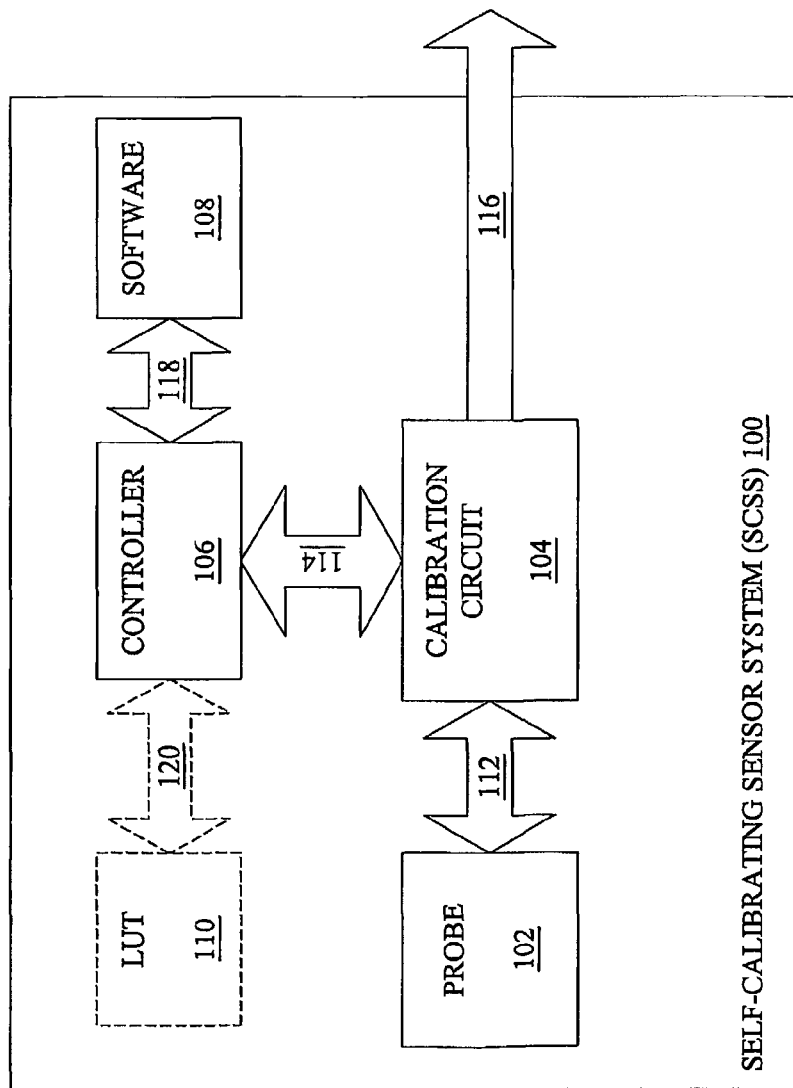


FIG. 1

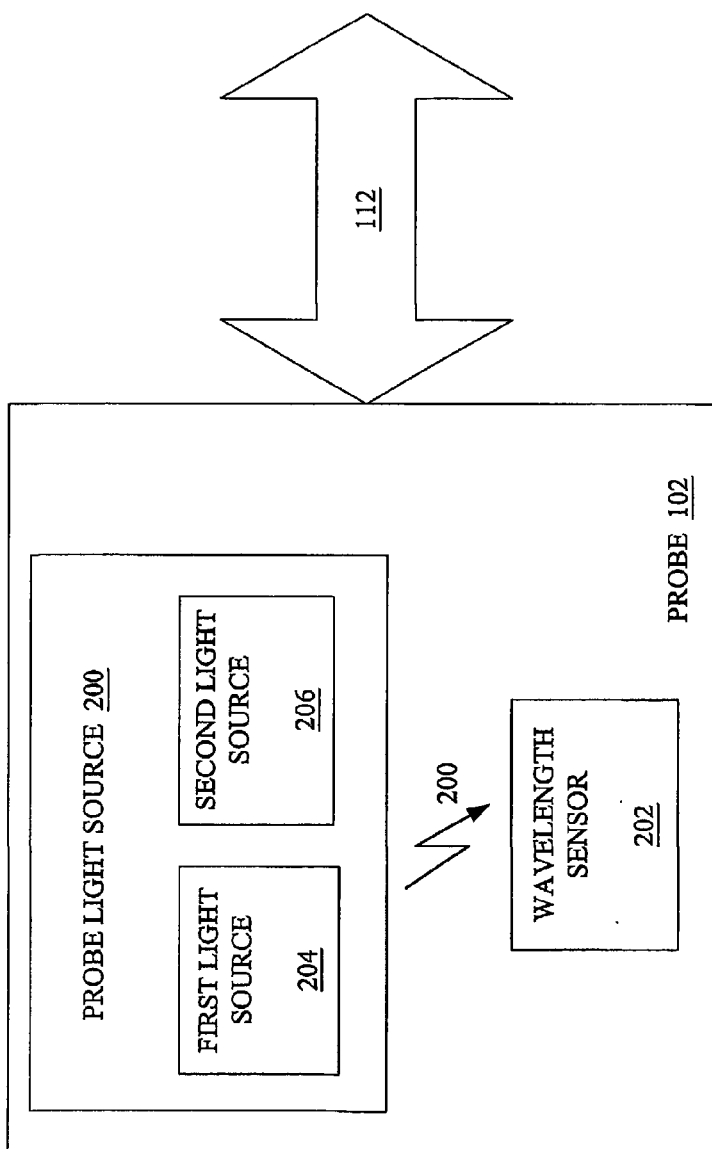


FIG. 2

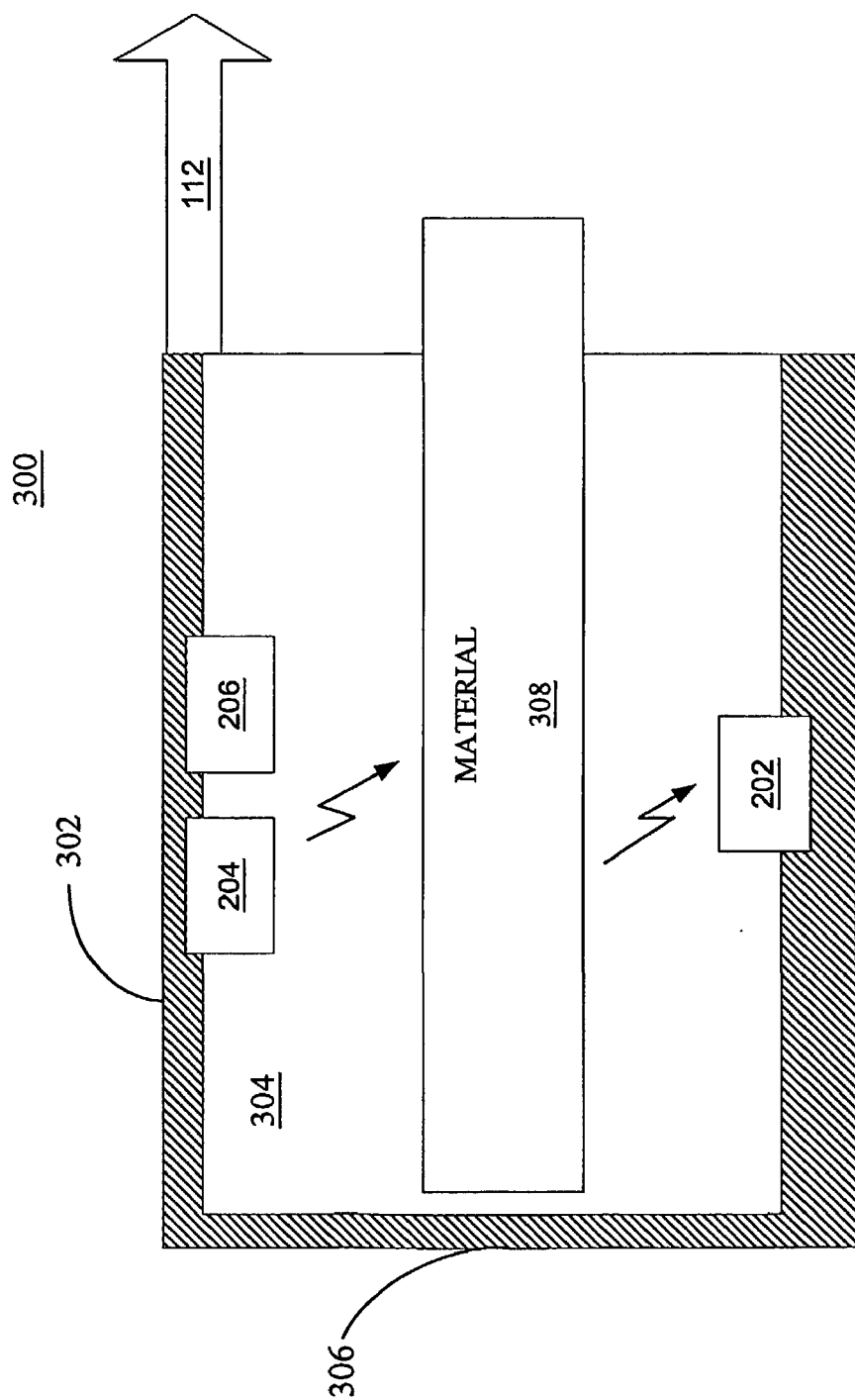


FIG. 3

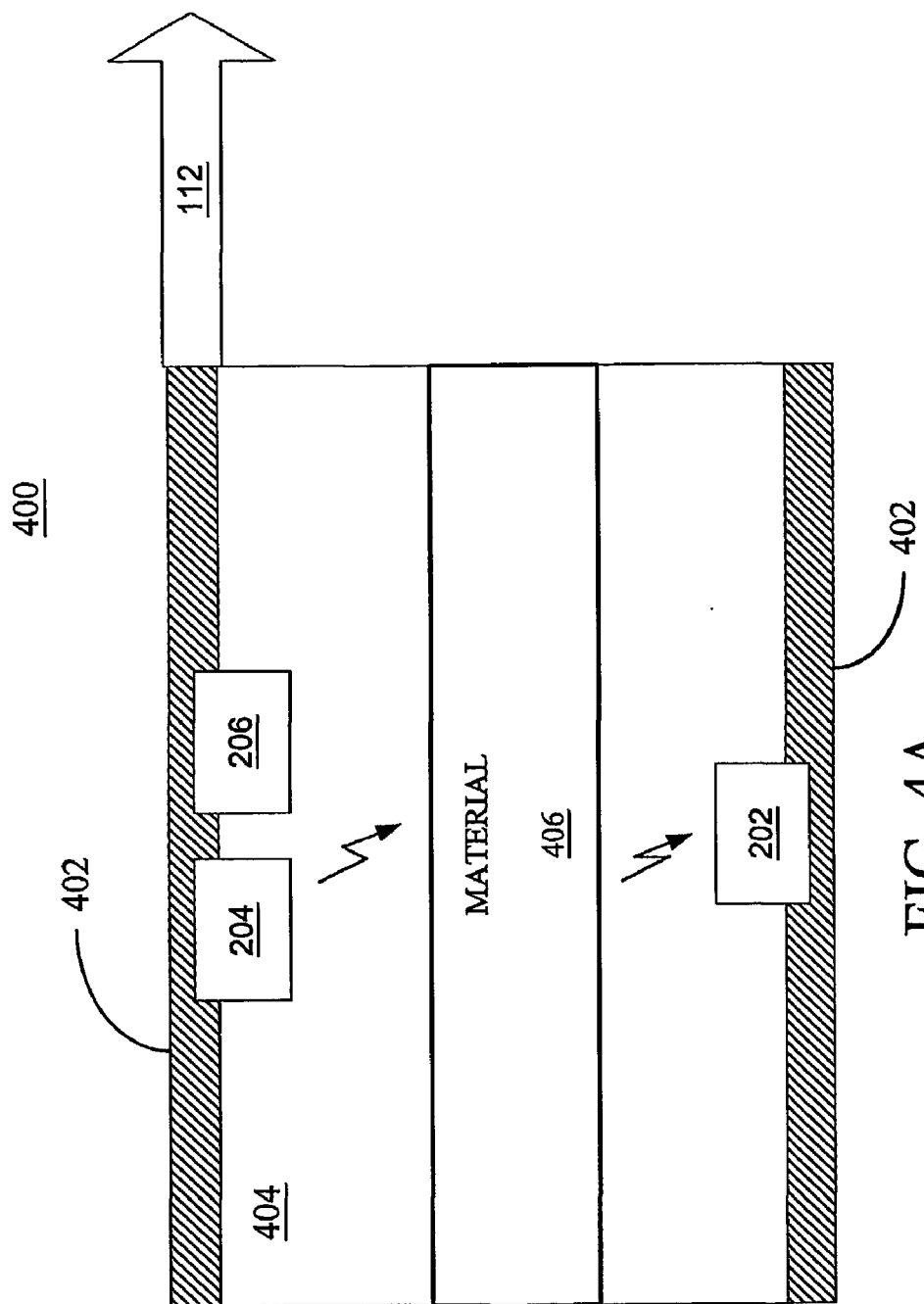


FIG. 4A

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