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(54) **SYMMETRIC LED ARRAY FOR PULSE OXIMETRY**

**Publication Classification**

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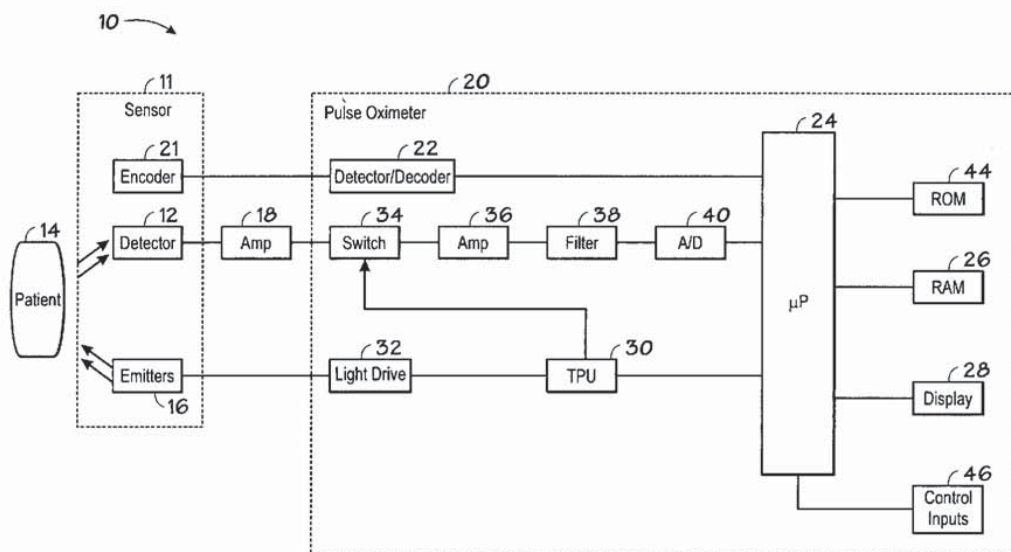
(57) **ABSTRACT**

There is provided a sensor for pulse oximeter systems. The sensor comprises a first source of electromagnetic radiation configured to operate at a first wavelength, a second source of electromagnetic radiation configured to operate at a second wavelength, and a third source of electromagnetic radiation configured to operate at a third wavelength. The emission spectra of the first and third sources of electromagnetic radiation overlap at their half power level or greater and correspond to a center wavelength in the range of 650 to 670 nm.

(73) Assignee: **Nellcor Puritan Bennett Incorporated**

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Apple Inc.  
APL1008

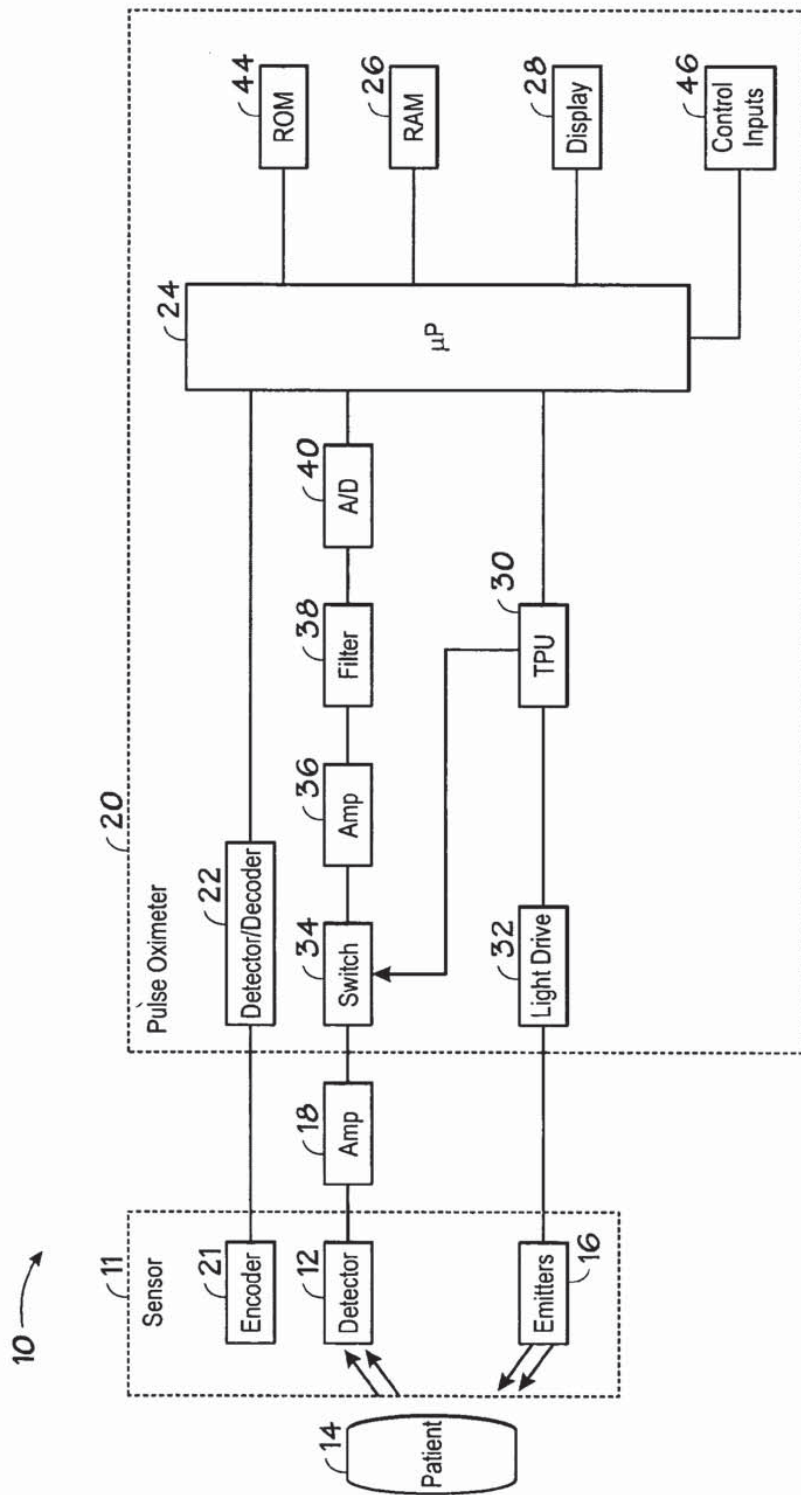


FIG. 1

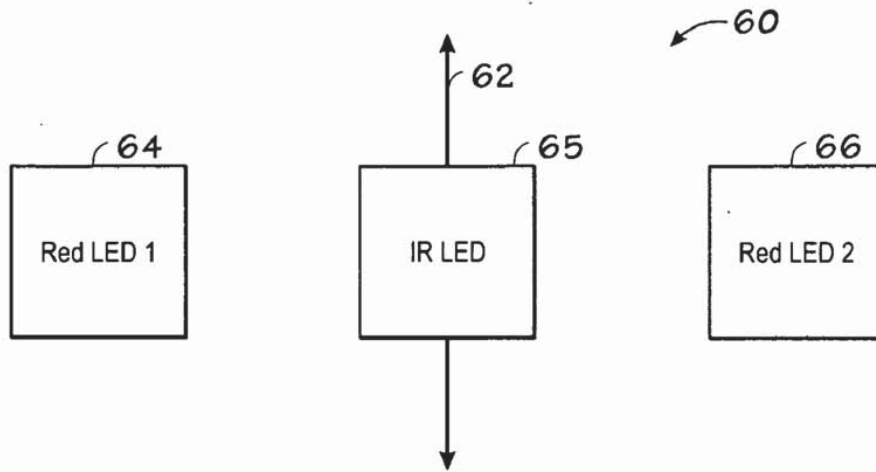


FIG. 2

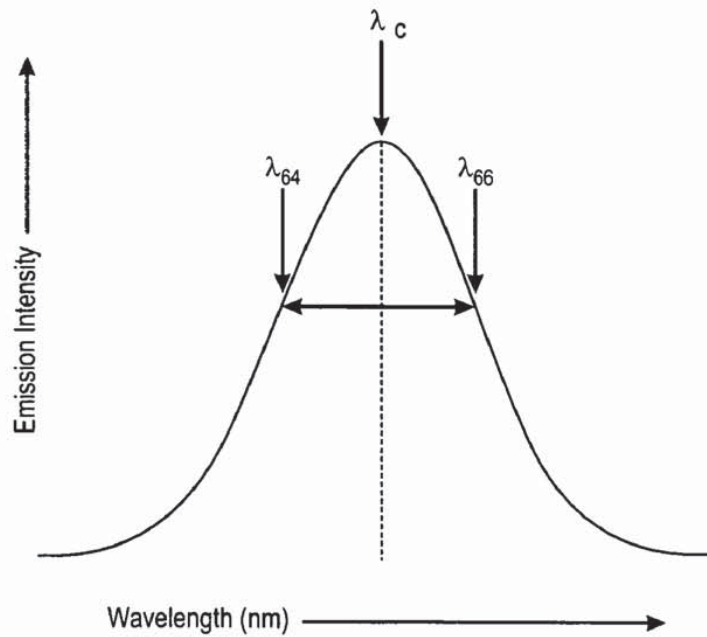


FIG. 3

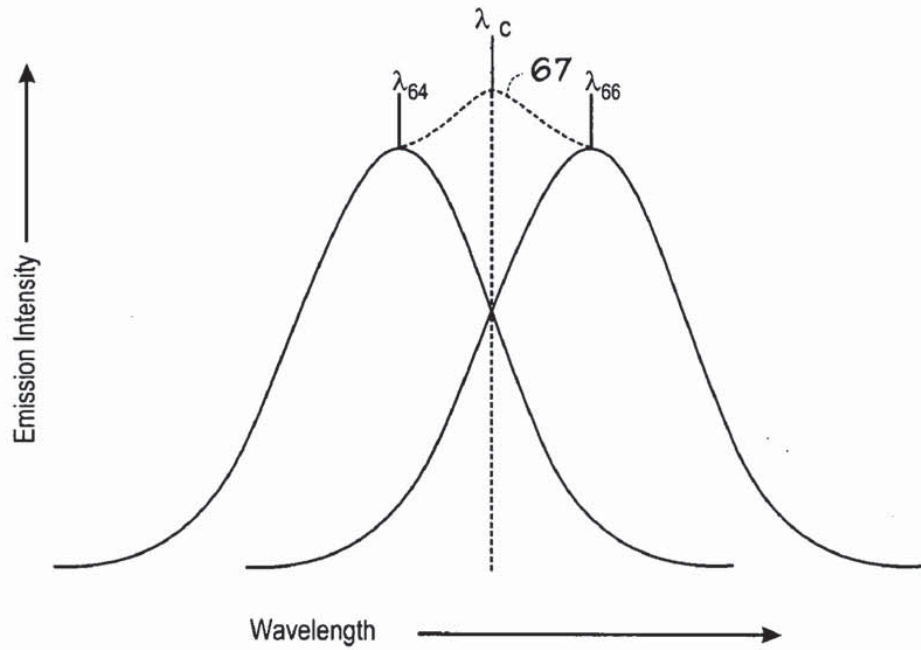


FIG. 4

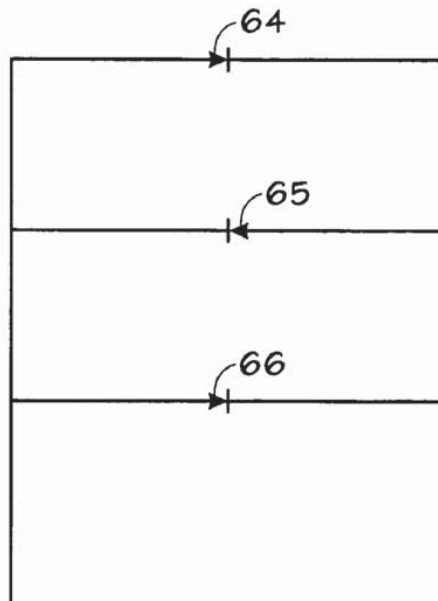


FIG. 5



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