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(19) **United States**(12) **Patent Application Publication**  
**Debreczeny**(10) **Pub. No.: US 2008/0081972 A1**(43) **Pub. Date: Apr. 3, 2008**(54) **SYMMETRIC LED ARRAY FOR PULSE  
OXIMETRY**(75) Inventor: **Martin P. Debreczeny**, Danville,  
CA (US)

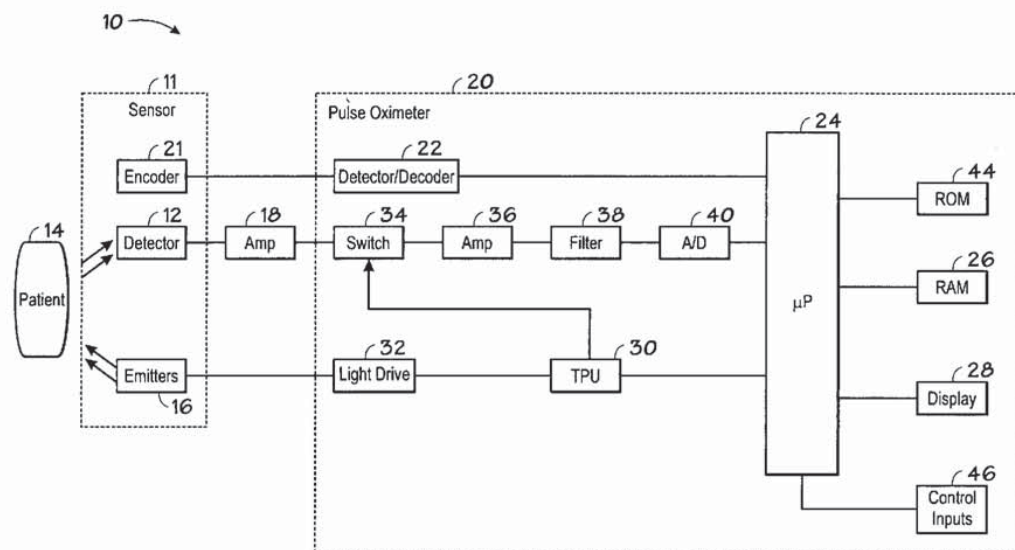
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**Incorporated**(21) Appl. No.: **11/541,287**(22) Filed: **Sep. 29, 2006****Publication Classification**(51) **Int. Cl.**  
**A61B 5/00**

(2006.01)

(52) **U.S. Cl.** ..... **600/323; 600/310**(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.

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APL1008

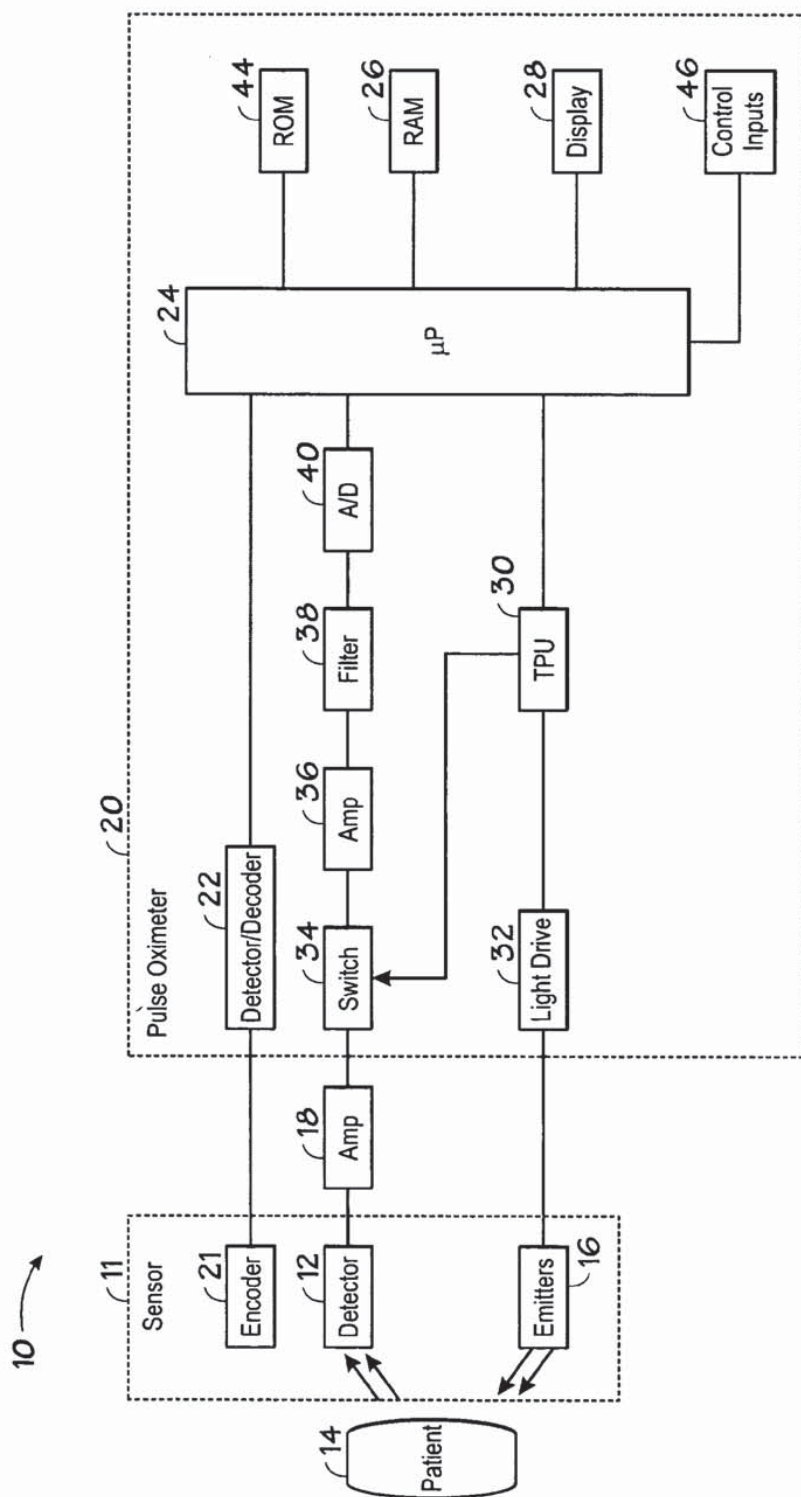


FIG. 1

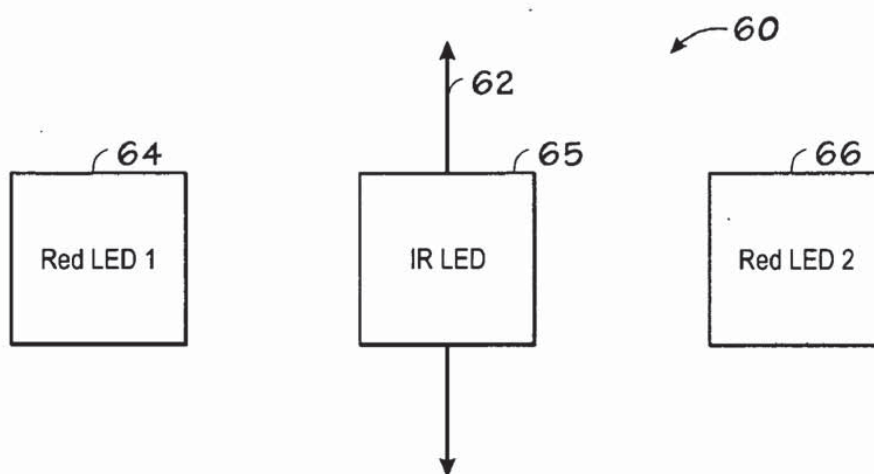


FIG. 2

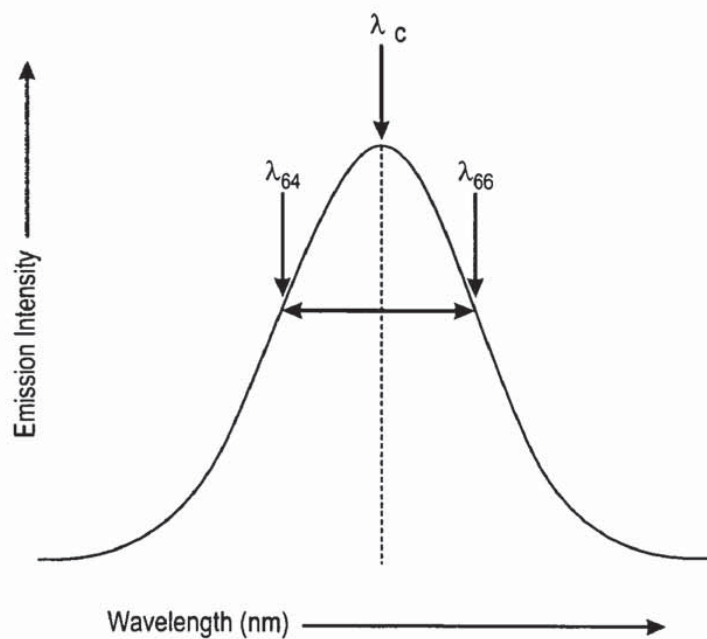


FIG. 3

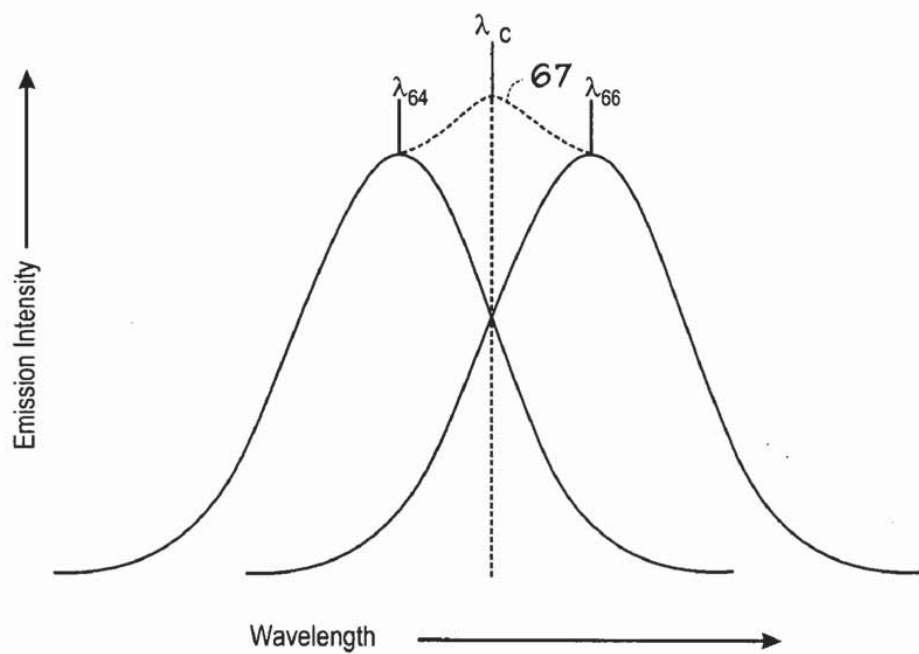


FIG. 4

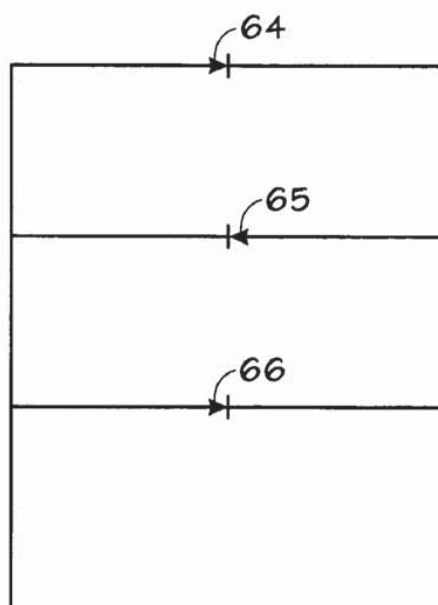


FIG. 5

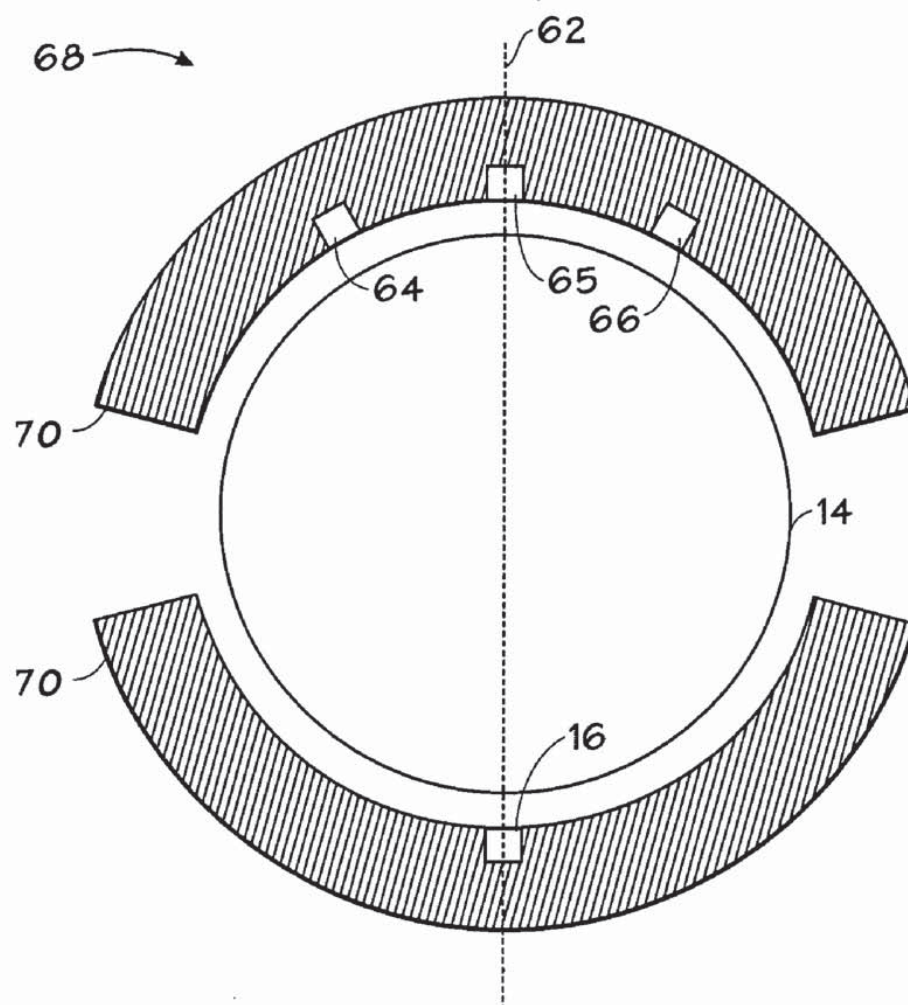


FIG. 6

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