US006801799B2

(12) **United States Patent**
Mendelson

(10) **Patent No.: US 6,801,799 B2**
(45) **Date of Patent: Oct. 5, 2004**

(54) **PULSE OXIMETER AND METHOD OF OPERATION**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/360,666**

(22) Filed: **Feb. 6, 2003**

(65) **Prior Publication Data**

US 2003/0144584 A1 Jul. 31, 2003

Related U.S. Application Data

(62) Division of application No. 09/939,391, filed on Aug. 24, 2001, now abandoned.

(30) **Foreign Application Priority Data**

Oct. 5, 2000 (IL) 138884

(51) **Int. Cl.**[7] **A61B 5/00**
(52) **U.S. Cl.** **600/330**; 600/322; 600/336
(58) **Field of Search** 600/310, 322, 600/323, 330, 336

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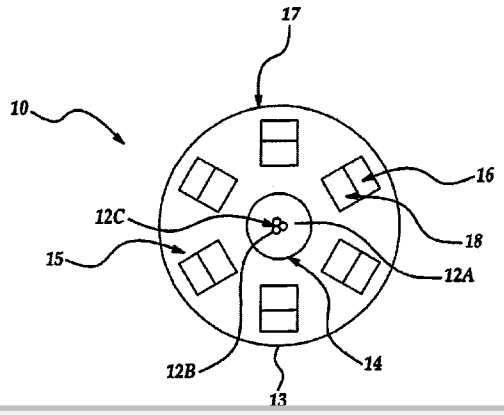
(57) **ABSTRACT**

A sensor for use in an optical measurement device and a method for non-invasive measurement of a blood parameter. The sensor includes sensor housing, a source of radiation coupled to the housing, and a detector assembly coupled to the housing. The source of radiation is adapted to emit radiation at predetermined frequencies. The detector assembly is adapted to detect reflected radiation at least one predetermined frequency and to generate respective signals. The signals are used to determine the parameter of the blood.

5 Claims, 6 Drawing Sheets



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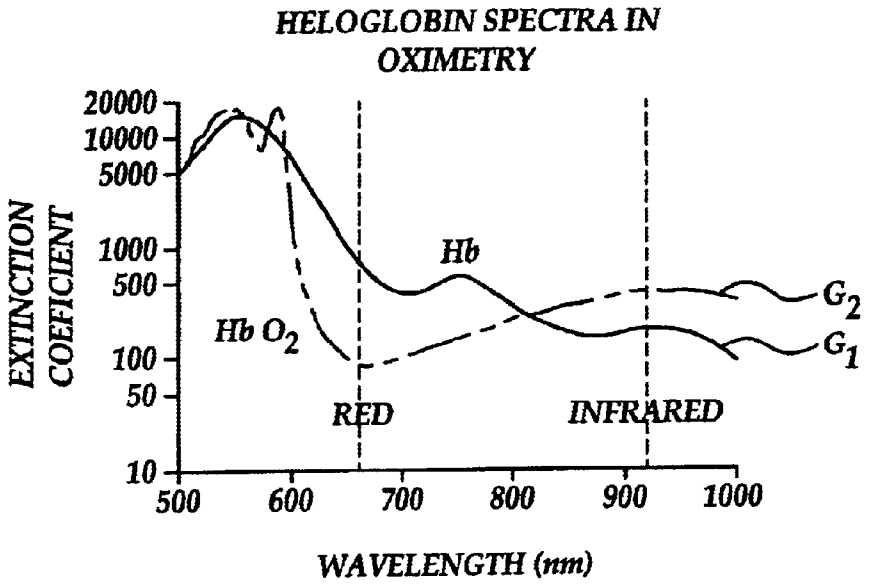

Figure 1

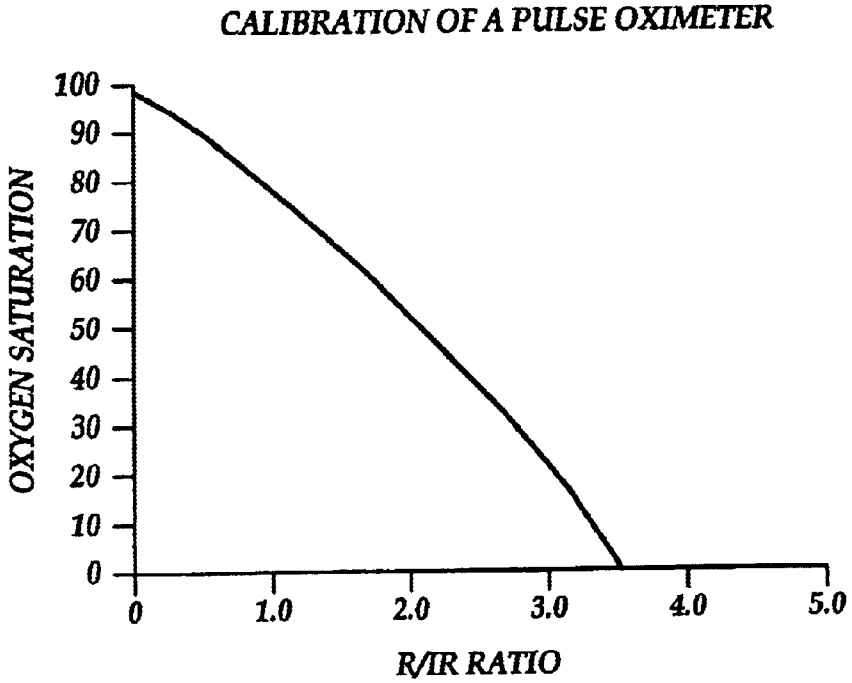

Figure 2

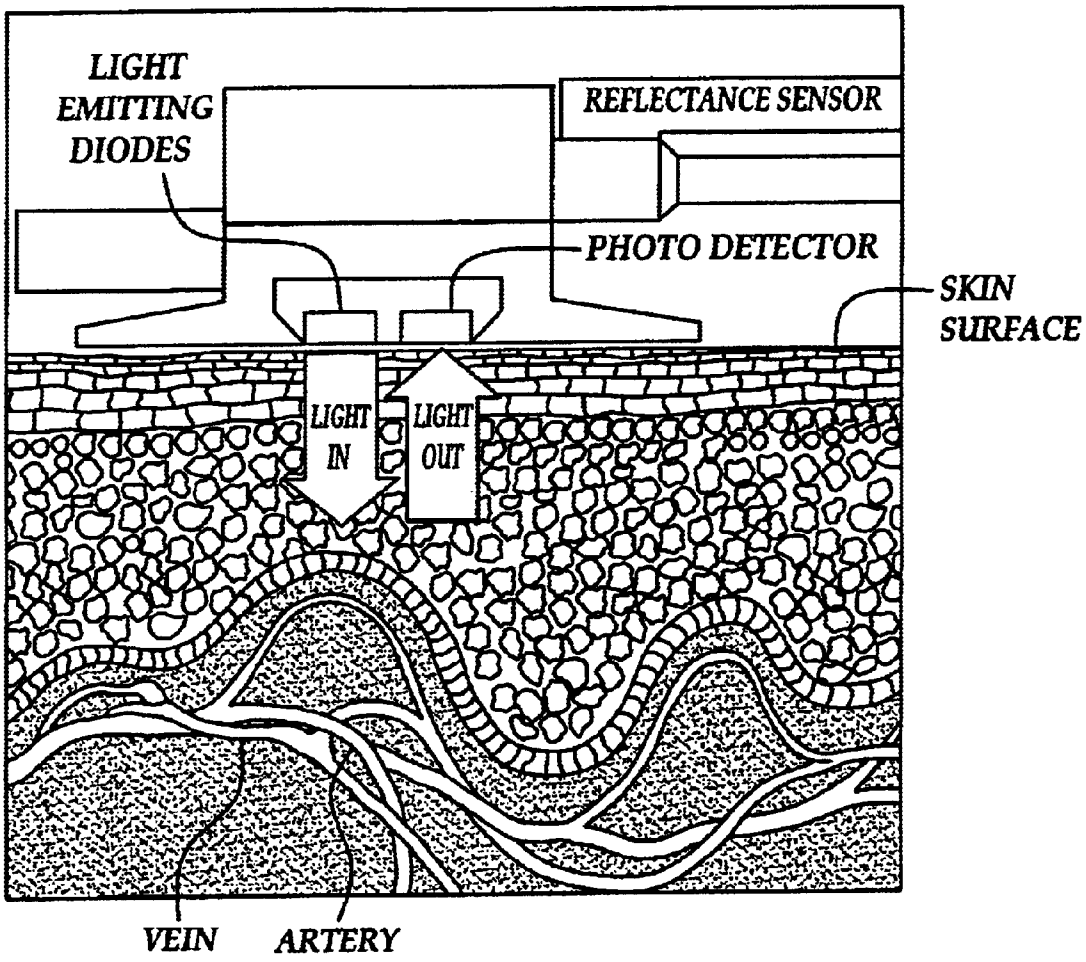

Figure 3

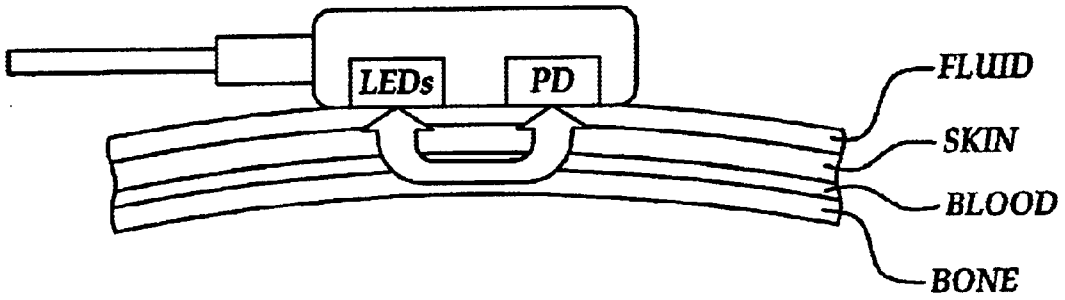

Figure 4

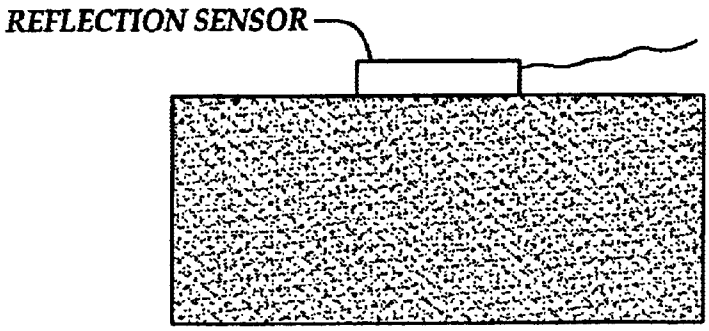

Figure 5A

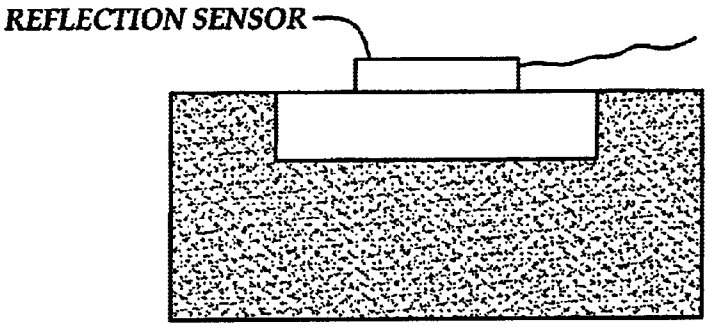

Figure 5B

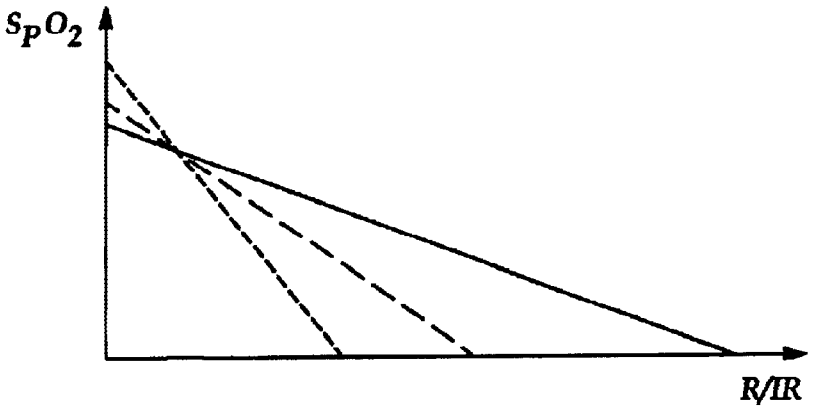

Figure 6

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