

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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(US)

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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

Oc	t. 5, 2000	(IL)	
(51)	Int. Cl. ⁷		
(52)	U.S. Cl.		600/330 ; 600/322; 600/336
(58)	Field of S	Search	600/310, 322,
			600/323, 330, 336

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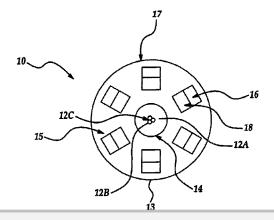
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(57) ABSTRACT

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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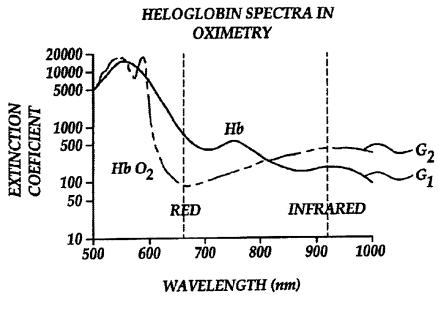
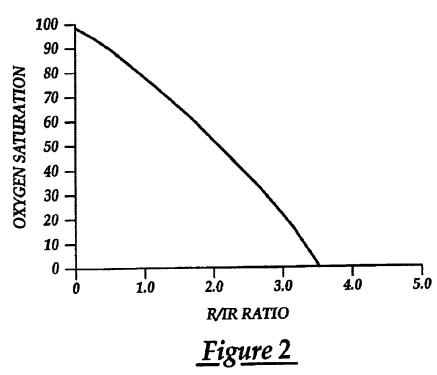


Figure 1

CALIBRATION OF A PULSE OXIMETER





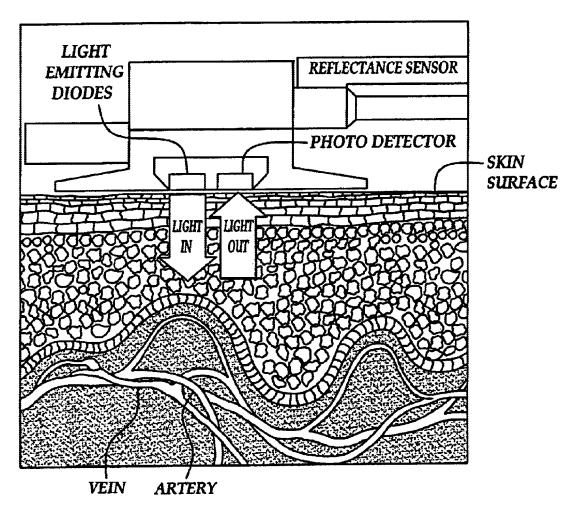
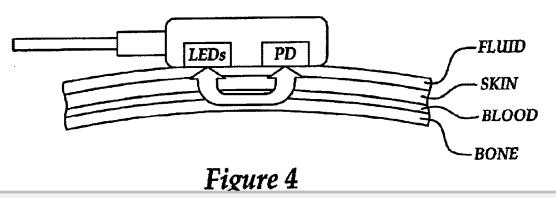
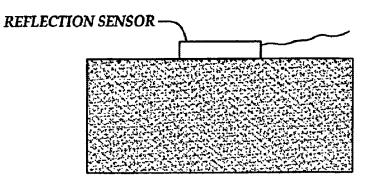


Figure 3







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Figure 5A

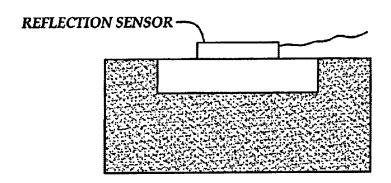
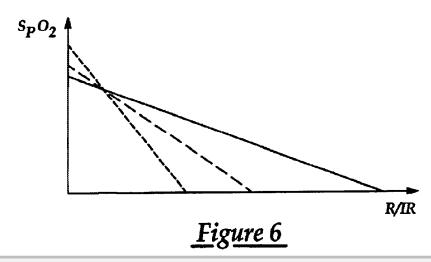


Figure 5B





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