



US006909912B2

(12) **United States Patent**
Melker

(10) **Patent No.:** **US 6,909,912 B2**
(45) **Date of Patent:** **Jun. 21, 2005**

(54) **NON-INVASIVE PERFUSION MONITOR AND SYSTEM, SPECIALLY CONFIGURED OXIMETER PROBES, METHODS OF USING SAME, AND COVERS FOR PROBES**

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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 300 days.

(21) Appl. No.: **10/176,310**

(22) Filed: **Jun. 20, 2002**

(65) **Prior Publication Data**

US 2003/0236452 A1 Dec. 25, 2003

(51) **Int. Cl.**⁷ **A61B 5/00**

(52) **U.S. Cl.** **600/323; 600/324**

(58) **Field of Search** **600/322-323, 600/324**

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(57) **ABSTRACT**

The present invention relates to a novel non-invasive perfusion/resistance status monitor system and methods of using the same, and more specifically, a vascular perfusion status monitor system receiving and processing signals from at least two pulse oximeter probes, where each of the at least two pulse oximeter probes are situated at advantageously different locations in a patient. Novel pulse oximeter probes are configured to be placed, respectively, across the lip or cheek, across the septum or nares of the nose, and on the tongue. These probes are fabricated to provide signals to estimate arterial oxygen saturation. Conventional oximeter probes also can be configured to function according to the novel methods of determining differences in peripheral blood flow and/or resistance described herein.

12 Claims, 6 Drawing Sheets

A METHOD OF USING IDENTIFYING AND MONITORING VASCULAR PERFUSION/RESISTANCE

