



US006006120A

United States Patent [19]

[11] Patent Number: **6,006,120**

Levin

[45] Date of Patent: **Dec. 21, 1999**

[54] **CORDLESS PULSE OXIMETER**

5,490,523 2/1996 Isaacson et al. 600/323

[75] Inventor: **Paul D. Levin**, Santa Cruz, Calif.

Primary Examiner—Eric F. Winakur
Attorney, Agent, or Firm—Bruce H. Johnsonbaugh

[73] Assignee: **Palco Labs, Inc.**, Santa Cruz, Calif.

[57] **ABSTRACT**

[21] Appl. No.: **09/177,091**

A replaceable sensing module is provided for use in a pulse oximetry device, allowing for quick replacement of a failed sensor element. A fingertip pad and a fingertip cover form the sensing module and cooperate to form a receptacle into which a patient's fingertip can be inserted. The sensing module has an internal spring, thereby permitting the module to be inserted into various oximetry type devices. The module has mounting rails and a multi-pin electrical connector, allowing a user to quickly replace the module in the event of component failure.

[22] Filed: **Oct. 22, 1998**

[51] **Int. Cl.**⁶ **A61B 5/00**

[52] **U.S. Cl.** **600/323**

[58] **Field of Search** 600/310, 316,
600/322, 323, 340, 344

[56] **References Cited**

U.S. PATENT DOCUMENTS

4,913,150 4/1990 Cheung et al. 600/323

4 Claims, 9 Drawing Sheets

