

United States Patent [19]
Hall

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[54] **MOTION ARTEFACT REJECTION SYSTEM FOR PULSE OXIMETERS**

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[73] **Assignee:** National Research Development Corporation, London, England

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[30] **Foreign Application Priority Data**
 Aug. 14, 1987 [GB] United Kingdom 8719333

[51] **Int. Cl.⁵** A61B 5/00

[52] **U.S. Cl.** 128/633; 128/664; 128/666; 128/687

[58] **Field of Search** 128/633, 634, 664, 665, 128/666, 687; 356/39, 41

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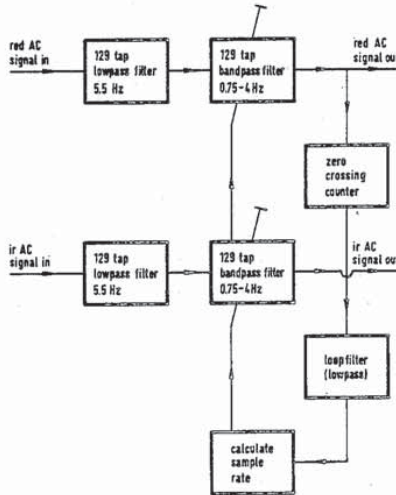
Primary Examiner—Kyle L. Howell
Assistant Examiner—John C. Hanley
Attorney, Agent, or Firm—Howard F. Mandelbaum

[57] **ABSTRACT**

A pulse oximeter apparatus characterized in that it comprises a bandpass filter adapted selectively to exclude motion artefact from wanted signal is disclosed.

Also disclosed is the use of such an apparatus for the determination of pulse rate and/or arterial blood oxygen saturation.

6 Claims, 4 Drawing Sheets



Apple Inc.
 APL1048

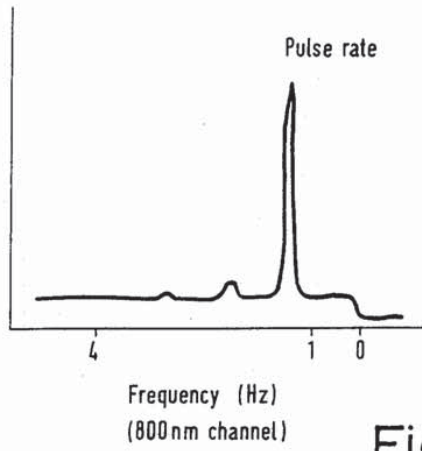


Fig.1

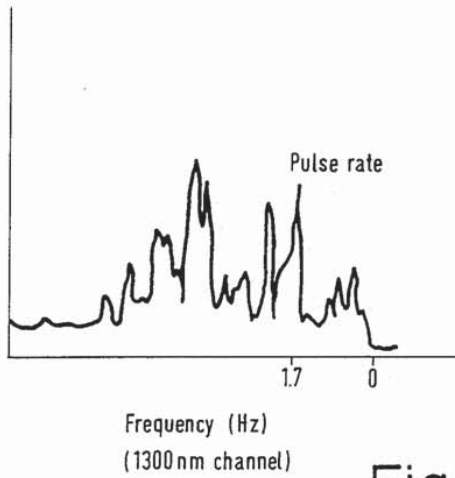


Fig.2

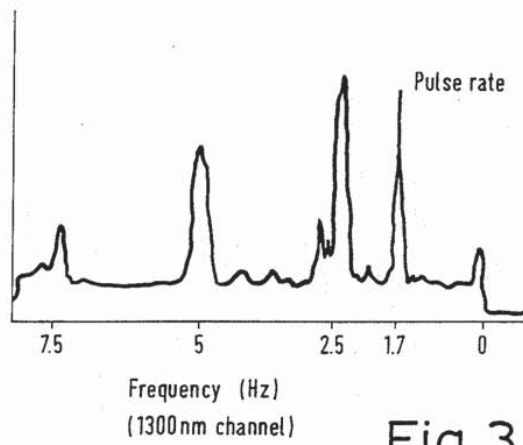


Fig. 3

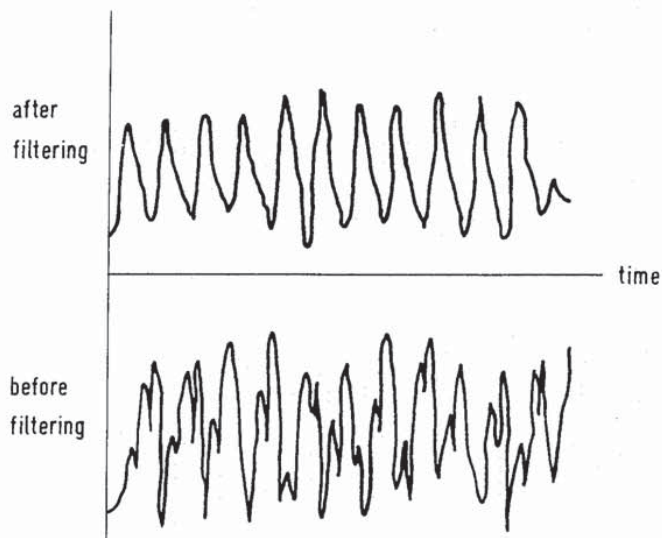


Fig. 4

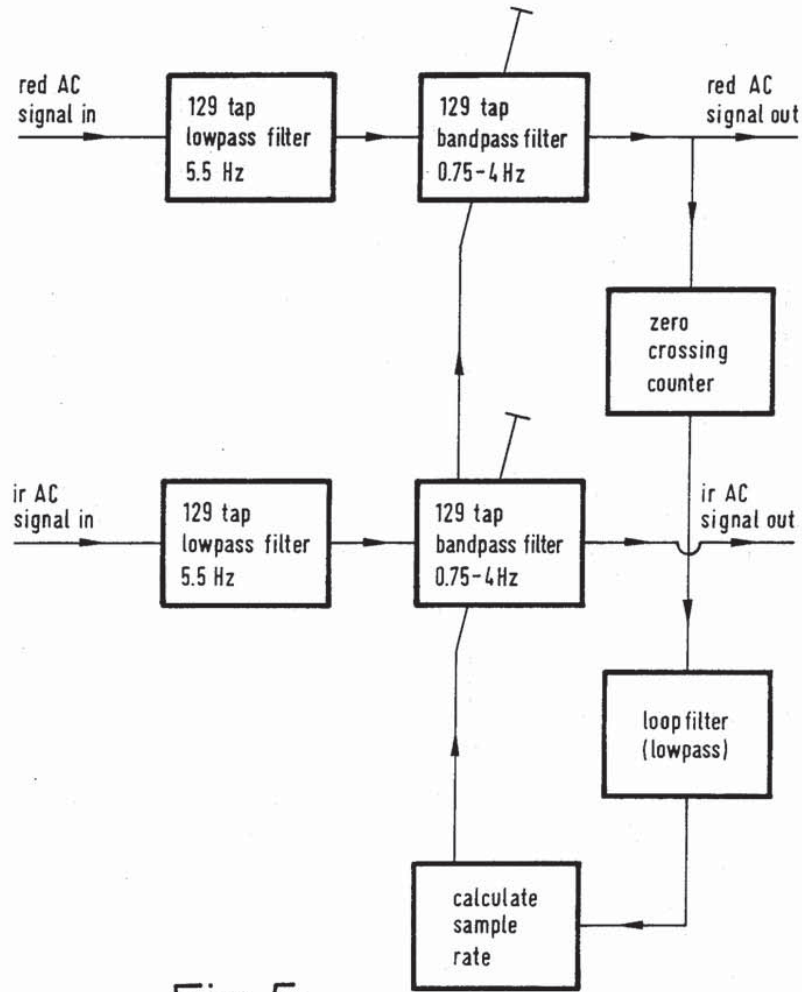


Fig. 5

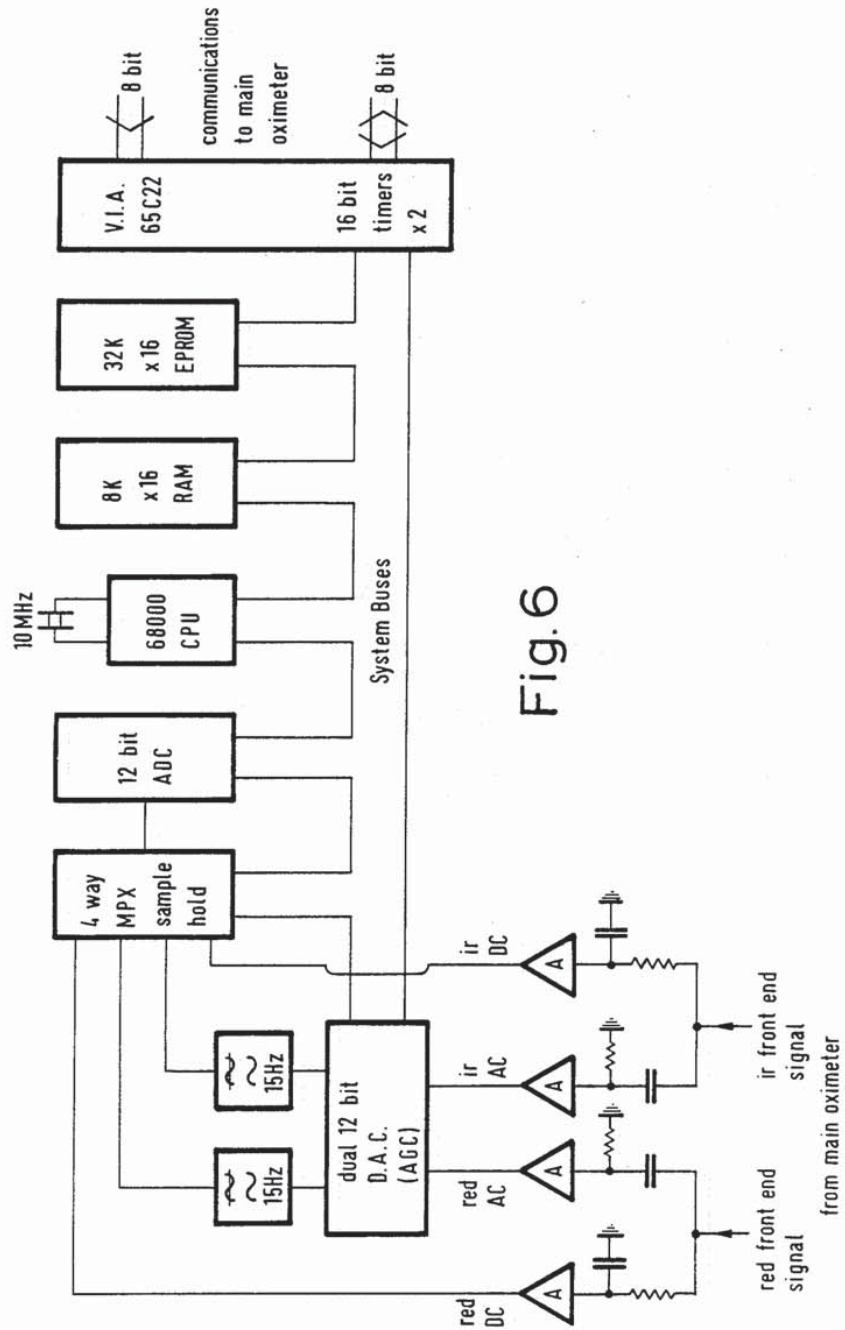


Fig. 6

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