

#### US005297548A

# United States Patent [19]

## Pologe

[56]

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[45] Date of Patent:

Mar. 29, 1994

[54]	ARTERIAL	BLOO	D MO	NITORING	PROBE

[75] Inventor: Jonas A. Pologe, Boulder, Colo.[73] Assignee: Ohmeda Inc., Murray Hill, N.J.

[21] Appl. No.: 45,962

[22] Filed: Apr. 12, 1993

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Primary Examiner—Angela D. Sykes Attorney, Agent, or Firm—Roger M. Rathbun; Larry R. Cassett; James M. Graziano

### Related U.S. Application Data

[63]	Continuation-in-part of Ser. No. 8	332,331, Feb. 7, 1992.
[51]	Int. Cl.5	A61B 5/00
[52]	U.S. Cl	128/633; 128/665;

356/41 [58] Field of Search ...... 128/633-634, 128/664-667; 356/39-41

## [57] ABSTRACT

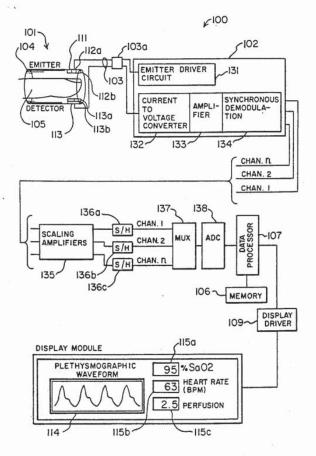
This arterial blood monitoring system takes advantage of the basic statistical property that arterial blood contains a plurality of dominant absorbers, whose measured light absorption spectra appear as a constant over a short interval of time. By measuring the transmitted light as it varies with arterial pulsation at selected wavelengths of light, over a common light path, the relative amount of these dominant absorbers in the arterial blood can noninvasively be determined. To ensure the common light path, a sandwich construction light detector is used.

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#### 10 Claims, 4 Drawing Sheets



Apple Inc. APL1019



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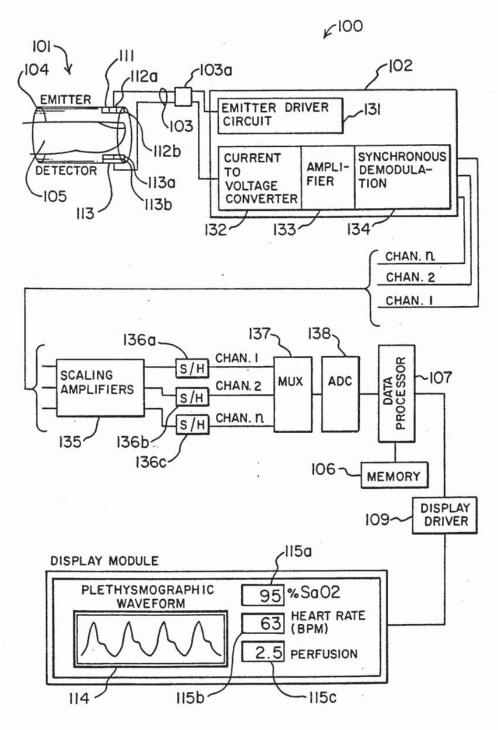
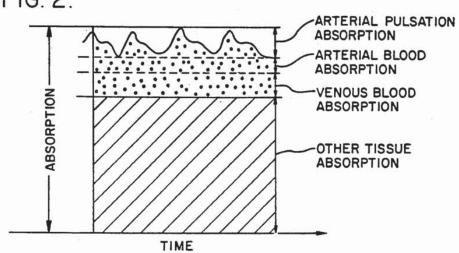
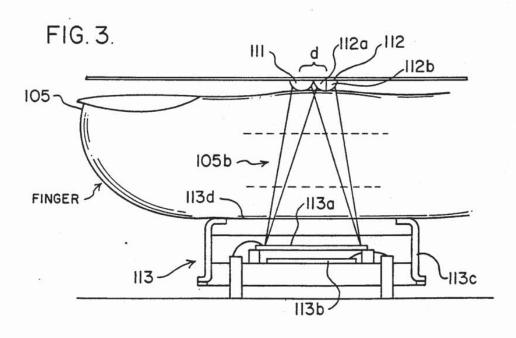


FIG. I.

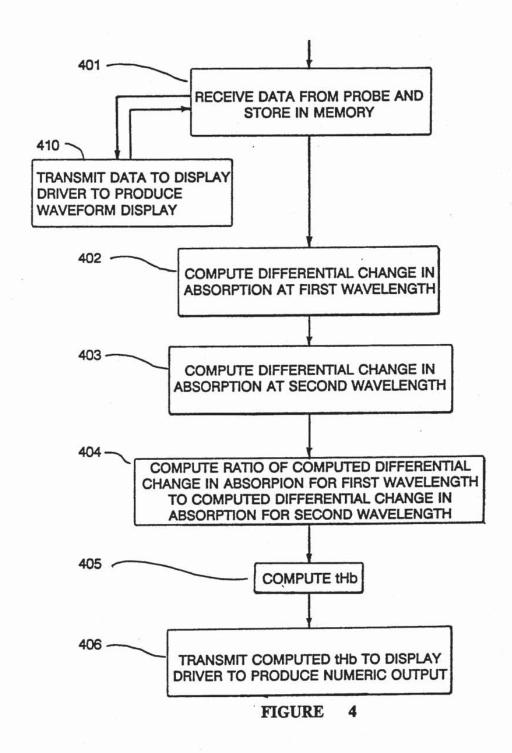
FIG. 2.



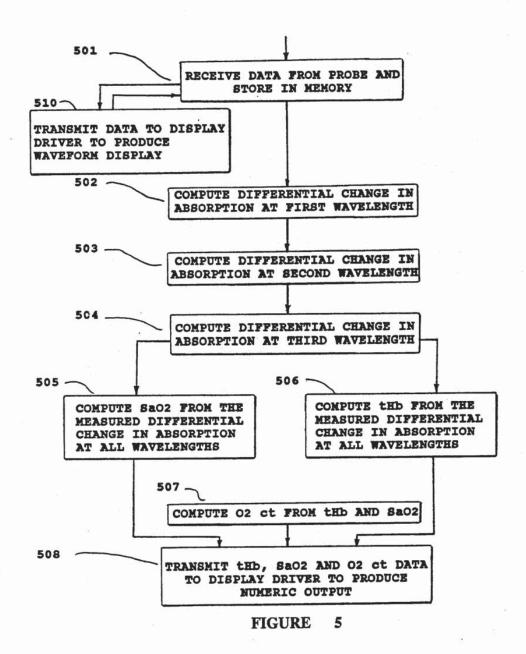
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