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Pologe

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[54]	ARTERIAL BLOOD MONITORING PROBE			
[75]	Inventor:	Jonas A. Pologe, Boulder, Colo.		
[73]	Assignee:	Ohmeda Inc., Murray Hill, N.J.		
[21]	Appl. No.:	45,962		
[22]	Filed.	Amm 12 1002		

0303502 2/1989 European Pat. Off. . 9004353 5/1990 PCT Int'l Appl. .

911136 8/1991 PCT Int'l Appl. .

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

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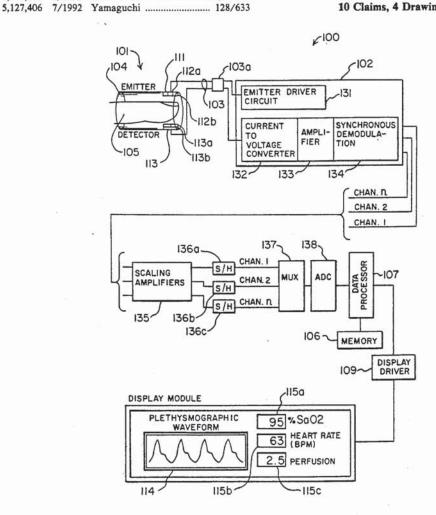
ABSTRACT [57]

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.

10 Claims, 4 Drawing Sheets

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[63]	Continuation-in-part of Ser. No. 832,551, Feb. 7, 1992.					
[51] [52]						
[58]	Field of Search					
[56]		Re	eferences Cited			
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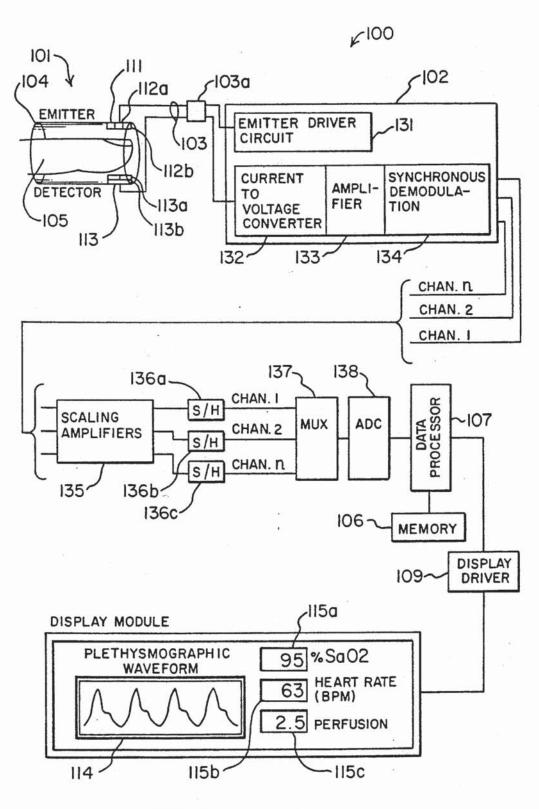
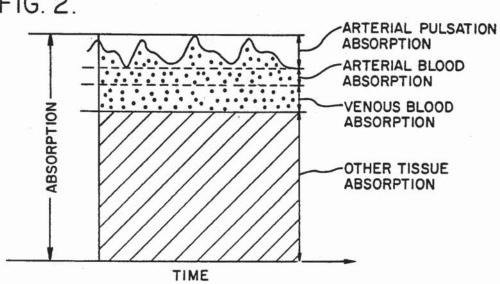
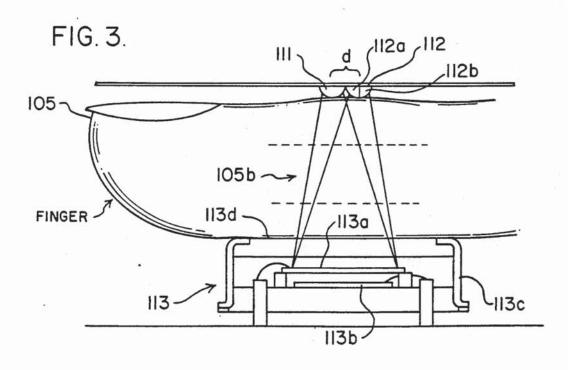


FIG. I.

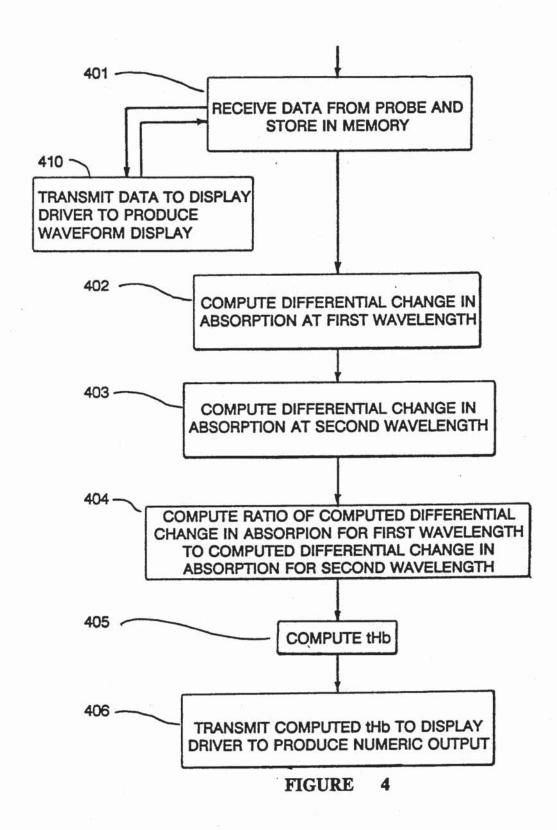


FIG. 2.



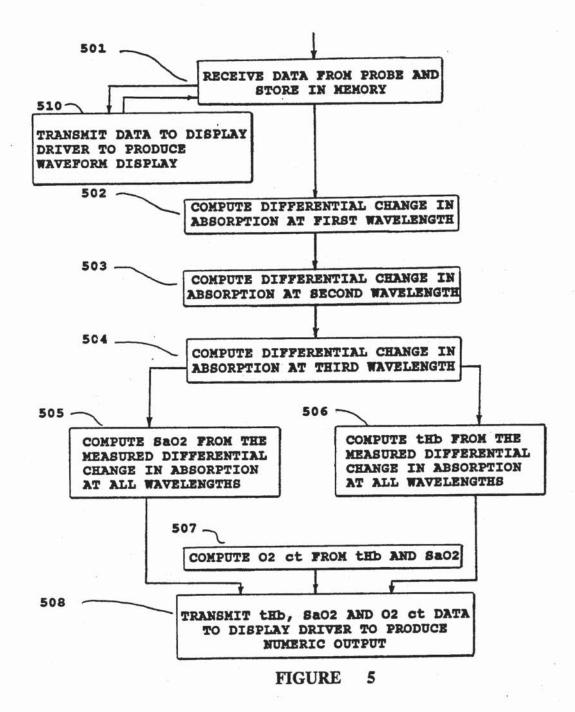








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