

United States Patent [19]

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Delonzor et al.

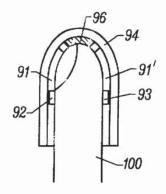
[56]

[11]	Patent Number:	5,797,841	
[45]	Date of Patent:	Aug. 25, 1998	

[54]	SHUNT BARRIER IN PULSE OXIMETER	5,090,410 2/1992 Saper et al 128/633	
	SENSOR	5,099,842 3/1992 Mannheimer et al 128/633	
		5,285,783 2/1994 Secker 128/633	
[75]	Inventors: Russ Delonzor. Union City; Paul D.	5,402,777 4/1995 Warring et al 128/633	
	Mannheimer, Danville; Michael E. Fein, Mountain View; Don Hannula,	FOREIGN PATENT DOCUMENTS	
	San Luis Obispo, all of Calif.	0127947 12/1984 European Pat. Off 128/633	
[73]	Assignee: Nellcor Puritan Bennett Incorporate Pleasanton, Calif.	Primary Examiner—Jennifer Bahr Assistant Examiner—Bryan K. Yarnell Attorney, Agent, or Firm—Townsend and Townsend and	
[21]	Appl. No.: 611,151	Crew LLP	
[22]	Filed: Mar. 5, 1996	[57] ABSTRACT	
[51] [52]	Int. Cl. ⁶	4; with a layer having a first portion over the emitter and a	
[58]			

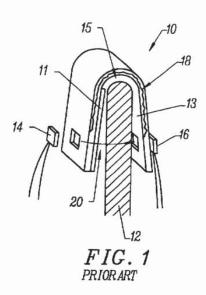
n emitter(s) and a detector. on over the emitter and a ne detector is provided. A irst and second portions of ally block radiation of the er(s). Preferably, the barrier to less than 10% of the radiation detected, and more preferably to less than 1% of the radiation detected.

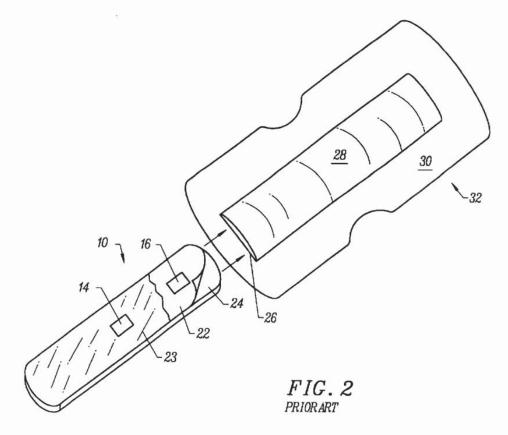
9 Claims, 6 Drawing Sheets

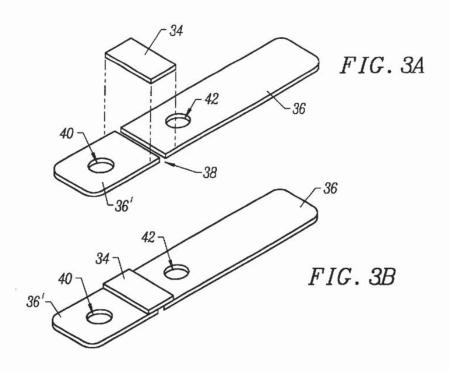


Apple Inc. **APL1010** U.S. Patent No. 8 989 830









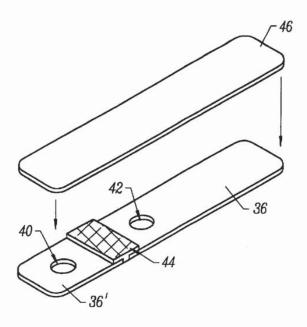
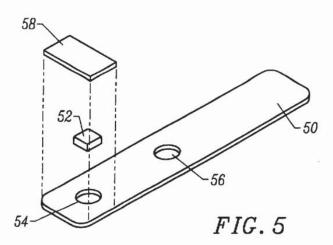
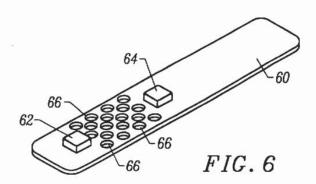
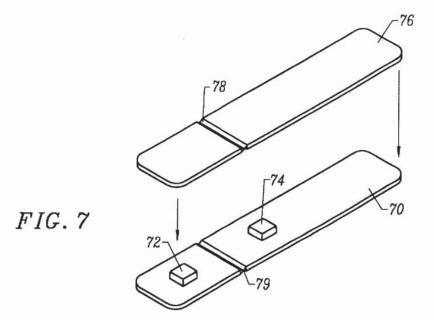


FIG. 4







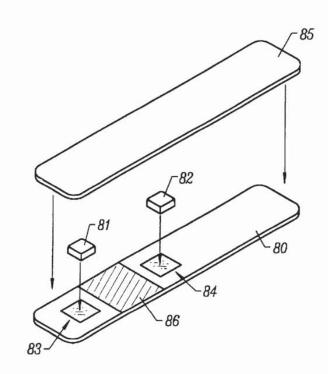


FIG. 8

DOCKET A L A R M

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