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Nanba et al.

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### (54) APPARATUS AND METHOD FOR ELECTRONICALLY PREDICTING PLEURAL PRESSURE FROM PULSE WAVE SIGNALS

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U.S.C. 154(b) by 84 days.

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Mar. 30, 2001	(JP)	••••	2001-100527

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600/500–507, 529–543, 561

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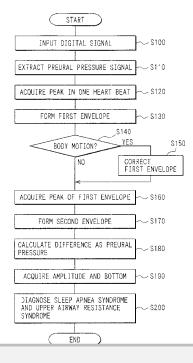
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#### (57) ABSTRACT

A pleural pressure is predicted from pleural pressure based upon pulse wave signals, which are continuously produced and picked up in a time sequential manner. A first variation signal indicative of a condition of a variation contained in the pulse wave signals is acquired based upon the pulse wave signals. A second variation signal representative of a condition of a variation contained in the first variation signal is acquired based upon the first variation signal. The pleural pressure is predicted based on a difference between the first variation signal and the second variation signal.

### 26 Claims, 9 Drawing Sheets





DISPLAY MICROCOMPUTER DETECT ADC FIG. 1A

FIG. 2

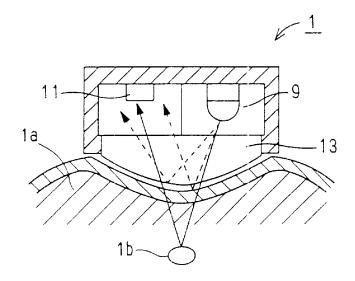


FIG. 3

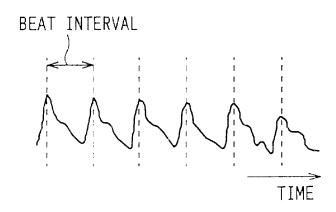
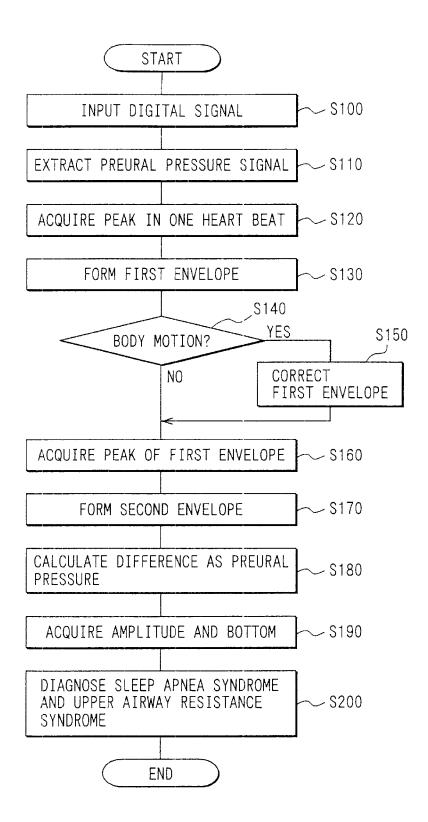


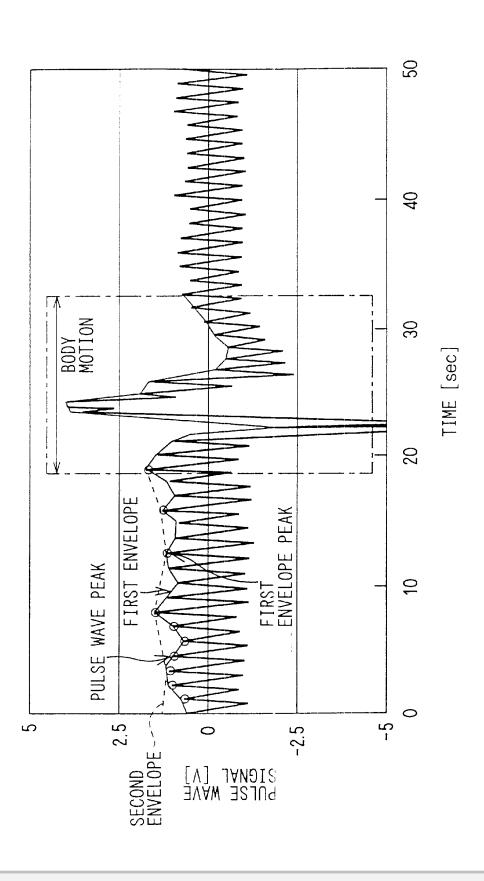


FIG. 4





-IG. 5



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