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(54) **METHOD AND APPARATUS FOR OBTAINING CARDIOVASCULAR INFORMATION BY MEASURING BETWEEN TWO EXTREMITIES**

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(58) **Field of Classification Search**

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See application file for complete search history.

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(57) **ABSTRACT**

A method and an apparatus for obtaining information on a cardiovascular system beat by beat and continuously which are based exclusively on measurements between two limbs and effected with a pair of distal electrodes on each limb. The measurement is made by causing an alternating current to flow between one electrode of each limb and measuring the potential difference between the other two electrodes, one also on each limb. This potential difference has a low frequency component which is an electrocardiogram (ECG) and another component having a frequency of the injected alternating current and from which an impedance plethysmogram (IPG) is extracted. The cardiovascular information is determined by measuring the time interval between any predefined characteristic element of the ECG and one of the IPG.

16 Claims, 3 Drawing Sheets

