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(54) **ADAPTIVE SELECTION OF DIGITAL ECG FILTER**

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CPC ***A61B 5/04017*** (2013.01); ***A61B 5/0456*** (2013.01); ***A61B 5/7203*** (2013.01)

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CPC ... A61B 5/0402; A61B 5/0245; A61B 5/7203; A61B 5/04017; A61B 5/0456; A61B 5/04012; A61B 5/7207
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See application file for complete search history.

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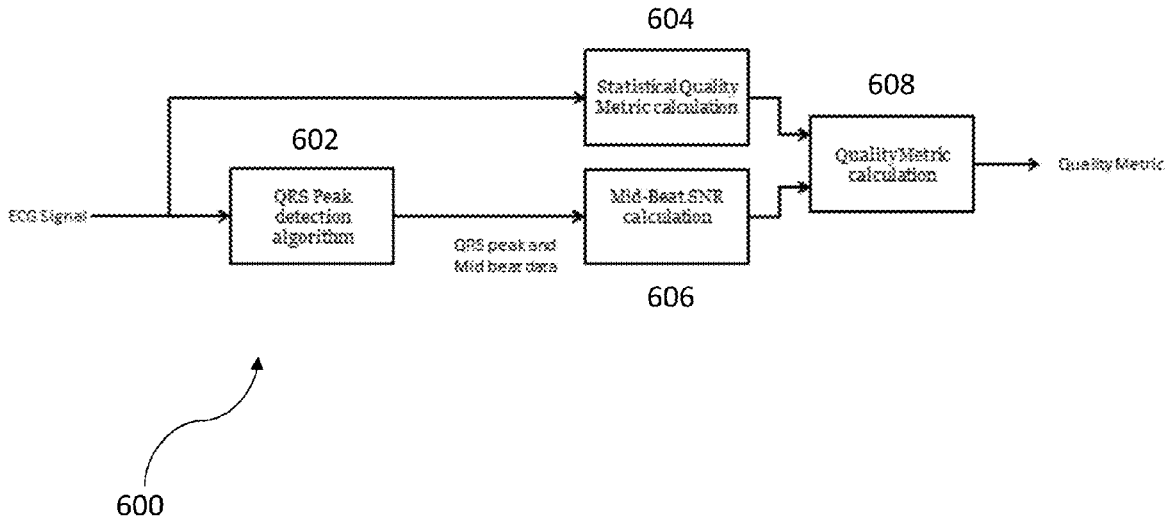
(57) **ABSTRACT**

A method and system for filtering a detected ECG signal are disclosed. In a first aspect, the method comprises filtering the detected ECG signal using a plurality of digital filters. The method includes adaptively selecting one of the plurality of digital filters to maintain a minimum signal-to-noise ratio (SNR). In a second aspect, the system comprises a wireless sensor device coupled to a user via at least one electrode, wherein the wireless sensor device includes a processor and a memory device coupled to the processor, wherein the memory device stores an application which, when executed by the processor, causes the processor to carry out the steps of the method.

11 Claims, 12 Drawing Sheets