

Title (en)

METHOD AND APPARATUS FOR REMOVING BASELINE WANDER FROM AN ECG SIGNAL

Title (de)

VERFAHREN UND GERÄT ZUR ENTFERNUNG VON WANDERN AUS EINEM EKG-SIGNAL

Title (fr)

PROCEDE ET APPAREIL DE SUPPRESSION DE LA DEVIATION DE LA LIGNE DE BASE A PARTIR D'UN SIGNAL ECG

Publication

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Application

EP 06801695 A 20060816

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Abstract (en)

[origin: WO2007044125A2] According to one aspect of the invention, an improved ECG monitor includes a plurality of electrodes to be affixed to a patient's body to pick up ECG signals in an ECG signal band. The electrodes are electrically coupled to a plurality of input amplifiers. At least one analog to digital converter ("ADC") is electrically coupled to the input amplifiers to digitize the ECG signals. A digital baseline wander filter has an internal finite impulse response ("FIR") low pass filter characterized by a substantially trapezoidal impulse response. The baseline wander filter substantially removes a baseline wander signal component having a range of frequency components below the ECG signal band. The ECG waveform output signal is a baseline filtered ECG waveform representing the one or more of the ECG signals. The ECG waveform output signal from the improved ECG monitor is delayed less than 2 seconds from the ECG signals.

IPC 8 full level

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