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(71)**Name of Applicant :**

1)MD. ZIA UR RAHMAN

Address of Applicant :Dept. of E.C.E., Koneru Lakshmaiah Education Foundation, K L University, Vadddeswaram, Guntur, Andhar Pradesh-522502, India. Andhra Pradesh India

(72)**Name of Inventor :**

1)L KOTESWARA RAO

2)K RAJU

3)MD ZIA UR RAHMAN

4)GOWRI THUMBUR

5)M KIRAN KUMAR

6)K MURALI KRISHNA

(57) Abstract :

)ISE REMOVAL SYSTEM IN THORACIC ELECTRICAL BIOIMPEDANCE SIGNALS USING NORMALIZED CLIPPED LOGARITHMIC ADAPTIVE ARTIFACT CANCELLER• Exemplary embodiments of the present disclosure are directed towards a noise removal system in thoracic electrical bioimpedance signals with a clipped logarithmic adaptive artifact canceller for the removal of artifacts from TEB (Thoracic Bio-impedance) signals; a data acquisition unit to acquire TEB (Thoracic Bio-impedance) where the actual Thoracic Bio-impedance signal component and n1(n) is a noise component; a discrete wavelet transform (DWT) based decomposition unit to obtain a feed of signals from an input signal, where the DWT decomposition is able to generate the reference signal from the contaminated Thoracic Bio-impedance (TEB) signal D(n); and NCLMLS-AAC to be used for the extraction of noise components to update the weight coefficients of the filter. FIG 1-2

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