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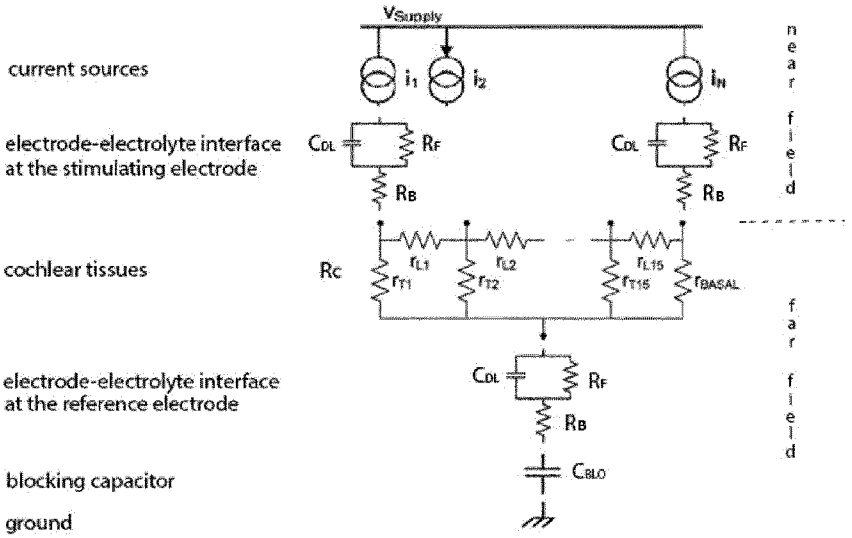

Fig.3

(57) Abstract: The present invention relates to a method for deriving information for setting a fitting parameter of a cochlear implant, said cochlear implant comprising an electrode array having a plurality of stimulating electrode contacts. The method comprises : - modelling an interface between an electrode contact of the electrode array and a cochlear tissue as a corresponding electrical circuit comprising a resistive component (RF) representative of Faradaic resistance at said interface, - determining at least an impedance value corresponding to the resistive component, - obtaining an indication of a value of a fitting parameter for the electrode contact by mapping the determined impedance value to a mathematical model relating said fitting parameter to the impedance.

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