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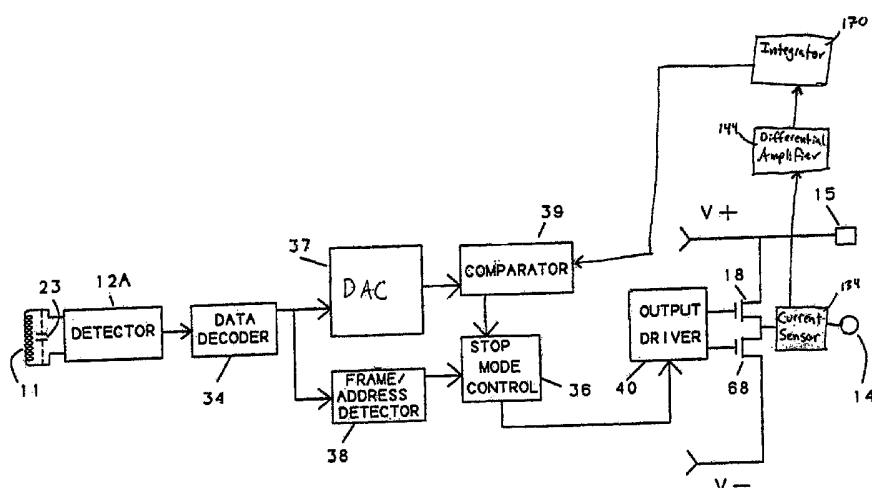
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(54) Title: CHARGE-METERED BIOMEDICAL STIMULATOR



(57) Abstract: Disclosed are biomedical stimulators and systems that deliver stimulus power efficiently to electrodes and tissues, provide reliable control of stimulus efficacy over a wide dynamic range of available power and voltage, avoid damaging net direct current flow through tissue, minimize the amount of data that must be transmitted to specify a particular stimulus strength, and extend the range of received field strengths for which stimulators can function safely and reliably. These biomedical stimulators and systems provide reliable stimulation of known intensity by measuring charging currents and discharging predetermined quantities of charge.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/19950

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61N 1/18(2006.01)

USPC: 607/2

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 607/2, 46, 50, 115

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,738,250 (FULKERSON et al.) 19 April 1988 (19.4.1988), entire reference.	1-12



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