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[Continued on next page]

(54) Title: USER INTERFACE WITH TOOLBAR FOR PROGRAMMING ELECTRICAL STIMULATION THERAPY

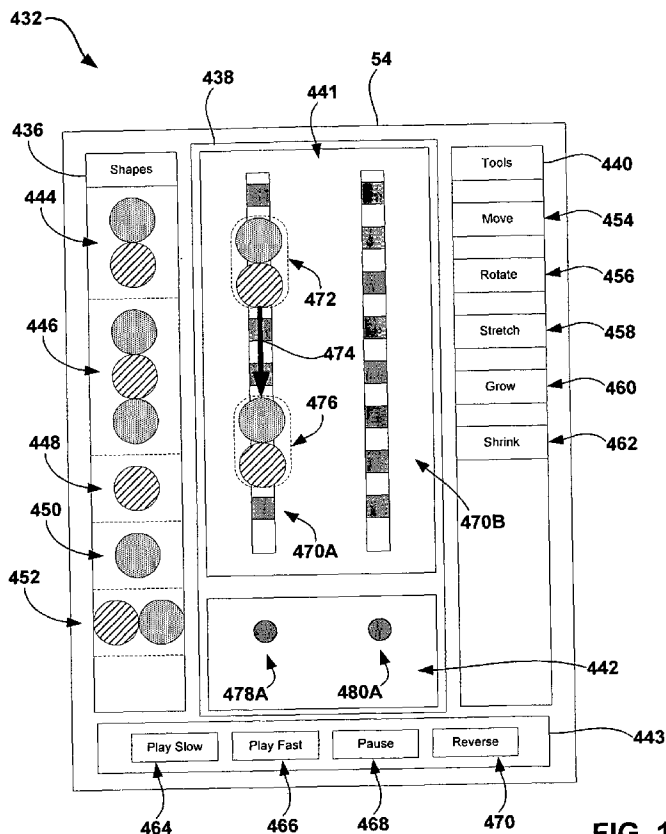


FIG. 19

(57) Abstract: The disclosure is directed to a user interface with a menu that facilitates stimulation therapy programming. The user interface displays a representation of the electrical leads implanted in the patient and at least one menu with icons that the user can use to adjust the stimulation therapy. The user may drag one or more field shapes from a field shape selection menu onto the desired location relative to the electrical leads. A manipulation tool menu may also allow the user to adjust the field shapes placed on the electrical leads, which represent the stimulation region. The programmer that includes the user interface then generates electrical stimulation parameter values for the stimulator to deliver stimulation according to the field shapes or field shape groups defined/located by the user. The field shapes may represent different types of stimulation representations, such as current density, activation functions, and neuron models.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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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 practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2004/045711 A (MEDTRONIC INC [US]) 3 June 2004 (2004-06-03) figures 1-3 page 1 page 2, lines 18-20 page 6, line 11 - page 11, line 2 page 12, lines 13-19	1-3, 9, 10
X	US 6 052 624 A (MANN CARLA M [US]) 18 April 2000 (2000-04-18) figures 4, 5A column 1, lines 5-12 column 10, lines 17-27 column 11, lines 6-12, 49-62 column 12, lines 9-19	1-8
A	US 2006/017749 A1 (MCINTYRE CAMERON C [US] ET AL) 26 January 2006 (2006-01-26) the whole document	1-10

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See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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