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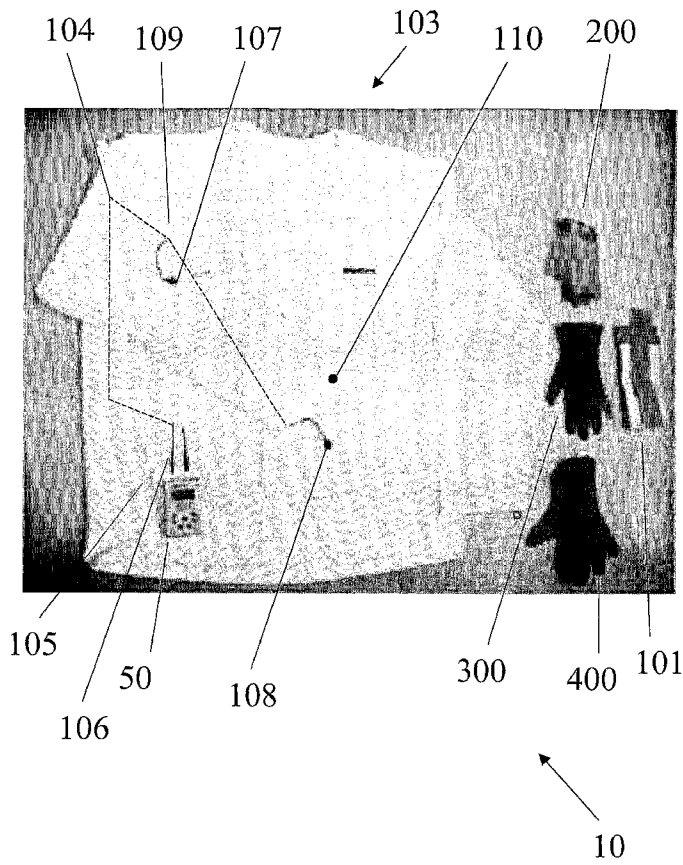
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[Continued on next page]

(54) Title: PROTECTIVE GLOVE WITH ELECTRICAL SIGNAL INTERRUPT FEATURE



(57) Abstract: A medical device treats diseases of the hand, wrist, and arm, including osteoarthritis and osteoarthrosis of the joints of the human hand. The medical device includes a multi-layer glove system, an arm wrap, a signal generator, lead wires, and a garment. The multi-layer glove system serves as the treatment electrode and the arm wrap serves as the return electrode. The multi-layer glove has a protective outer layer, which protects an underlying electrically conductive layer and prevents accidental electrical contact between the conductive layer and areas of a patient's skin. The signal generator produces a specific, spike shaped electrical signal, together with the multi-layer glove system, at the treatment site. The device can reduce pain and increase joint function of the treated joints.

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A. CLASSIFICATION OF SUBJECT MATTER

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USPC: 607/46,50,63,145,149,150;600/384,388,393;2/158,159,160

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. : 607/46,50,63,145,149,150; 600/384,388,393; 2/158,159,160

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)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,643,332 (STEIN) 1 July 1997 (1.07.1997), Figure 3, Cols. 3 and 4	1-18
Y	US 2003/0208248 (CARTER et al.) 6 Nov. 2003 (6.11.2003) par. 3	3 and 12
Y	US 5,273,033 (HOFFMAN) 28 Dec. 1993 (28.12.1993), col. 3, lines 33-51	4, 5, 13, 14
Y	US 5,374,283 (FLICK) 20 Dec. 1994 (20.12.1994) col. 2, lines 50-57 and Figure 1	6, 9, 15, 18
Y	US 4,729,377 (GRANEK et al) 8 Mar. 1988 (8.03.1988) Figure 3	7 and 16
Y	US 3,982,298 (OTA) 28 Sept. 1976 (28.09.1976) col. 2, lines 44-57	8 and 17

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
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