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(54) Title: DETERMINATION OF BIOSENSOR CONTACT QUALITY

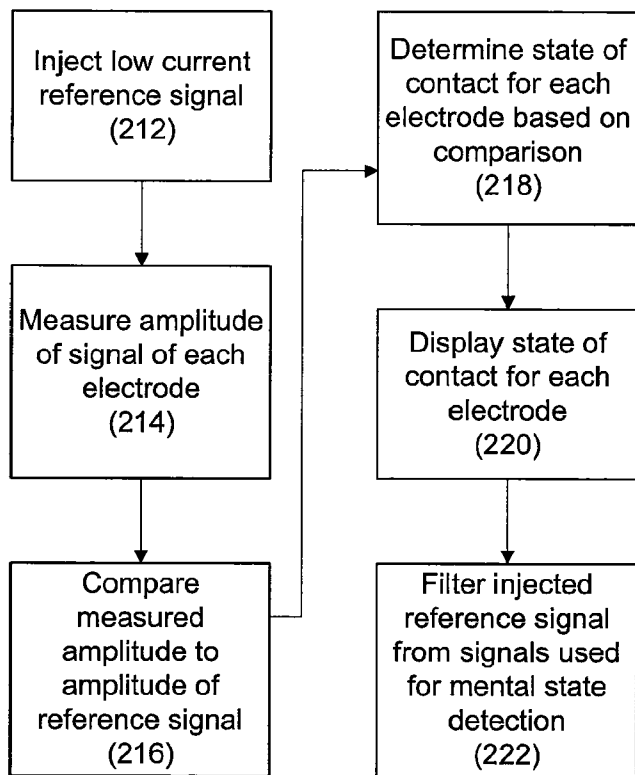


FIGURE 3B

(57) Abstract: A method of assisting a user in bringing a plurality of EEG electrodes into proper contact with the user's scalp includes receiving a signals from EEG electrodes, determining a state of contact with the user's scalp, and displaying a representation of the user's scalp and an indicator of the state of contact, the indicator positioned on the representation in a position representative of a position of an associated electrode on the user's scalp. Determining quality of contact of an electrode on a user can includes applying a reference signal to a user, receiving a measured signal from an electrode for monitoring bioelectric signals of the user, and determining a state of contact of the electrode with the user based on the measured signal and the reference signal.

WO 2009/065006 A3



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INTERNATIONAL SEARCH REPORT

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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)

IPC 8: A61B 5/0478

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

Korean utility models and applications for utility models since 1975.
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

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Keywords: EEG, contact, detect, sensing

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003-0023183 A1 (WILLIAMS, C. E.) 30 January 2003 See claims 1, 11, and figure 16.	1-10, 24, 26
X	US 2006-0020218 A1 (FREEMAN, W. et al.) 26 January 2006 See claims 1, 6, and figure 4.	11-23, 25, 27, 28
A	US 5469857 A (LAURENT, E. et al.) 28 November 1995 See claims 1, 2, figures 1, 2, and columns 3, 4.	1-28
A	US 5820568 A (WILLIS, N. P.) 13 October 1998 See claims 1-7, and figure 14.	1-28

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

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 5469857 A	28.11.1995	US 5469857 A	28.11.1995
US 5820568 A	13.10.1998	US 5820568 A	13.10.1998