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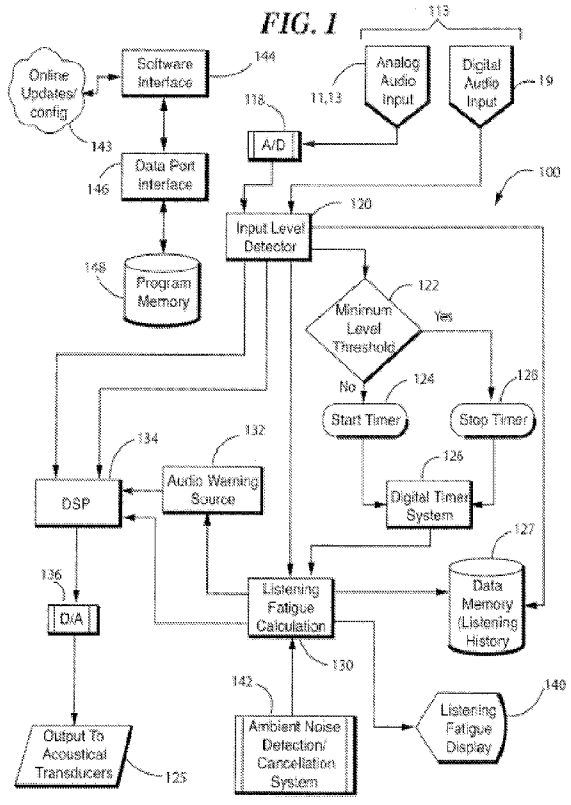
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[Continued on next page]

(54) Title: EAR INPUT SOUND PRESSURE LEVEL MONITORING SYSTEM



(57) Abstract: At least one exemplary embodiment is directed to a system for monitoring a sound pressure level dose at an ear which includes an audio transducer adapted to be placed within an ear to receive sound at the ear. The audio transducer outputs a sound signal. A sound level threshold detector receives the sound signal and determines whether a sound pressure level of the sound signal is at a minimum level and outputs a sound pressure level signal corresponding to a sound pressure level of the sound pressure level when the sound pressure level is not at the minimum level. A clock calculates a time period during which the sound pressure level is not at the minimum threshold level. A listening fatigue calculator receives the sound signal and the time period and determines whether a cumulative effect of exposure to the sound at the ear over a monitored time period will cause harm to the ear. At least a portion of the system is disposed in situ at the ear.

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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 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 6,826,515 (BERNARDI et al.) 30 November 2004 (30.11.2004) , column 3, line 16-column 5, line 25	1,,26

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

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