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(54) Title: HEARING-AID TRANSDUCER HAVING AN ENGINEERED SURFACE

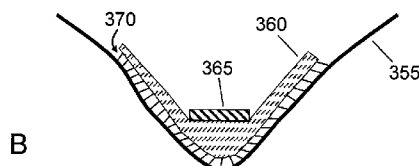


Fig. 3

(57) Abstract: A hearing aid transducer adapts itself to variations in the surface of a tympanic membrane and slides over the migrating membrane without lubrication. Microscopic setae create a conforming interface between the biocompatible material of the transducer and the living tissue of the tympanic membrane.



INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/067703

A. CLASSIFICATION OF SUBJECT MATTER

H04R 25/00(2006.01)i

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)

H04R 25/00; H04R 25/02

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

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: "HEARING-AID," "EARLES," "TRANSDUCER," "SETA," "LUBRICANT," "BIOCOMPATIBILITY," "BIO-MECHANIC," "PIEZO-ELECTRI," AND "CARRIER"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5259032 A (Rodney C. Perkins et al.) 02 November 1993 See the abstract; figures 2A-4; claims 1-13	1-22
A	US 2007-0100197 A1 (Rodney Perkins et al.) 03 May 2007 See the abstract; figures 3A-6D; claims 1-50	1-22
A	US 5797834 A (GOODE; RICHARD) 25 August 1998 See the abstract; figures 1-6; claims 1-18	1-22
A	US 5277694 A (LEYSIEFFER; HANS et al.) 11 January 1994 See the abstract; figures 1-8; claims 1-38	1-22
A	US 6068589 A (NEUKERMANS; ARMAND P.) 30 May 2000 See the abstract; figures 1-5; claims 1-22	1-22

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

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"&" document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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