(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
02 November 2017 (02.11.2017)

WIPO | PCT

(10) International Publication Number
WO 2017/187372 A3

(51) International Patent Classification:
H04R 25/00 (2006.01) *H04R 17/00* (2006.01)

(21) International Application Number:
PCT/IB2017/052423

(22) International Filing Date:
26 April 2017 (26.04.2017)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/328,233 27 April 2016 (27.04.2016) US
15/162,691 24 May 2016 (24.05.2016) US

(71) Applicant: **COCHLEAR LIMITED** [AU/AU]; 1 University Avenue, Macquarie University, New South Wales 2109 (AU).

(72) Inventor: **MESKENS, Werner**; c/o COCHLEAR LIMITED, 1 University Avenue, Macquarie University, New South Wales 2109 (AU).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) **Title:** IMPLANTABLE VIBRATORY DEVICE USING LIMITED COMPONENTS

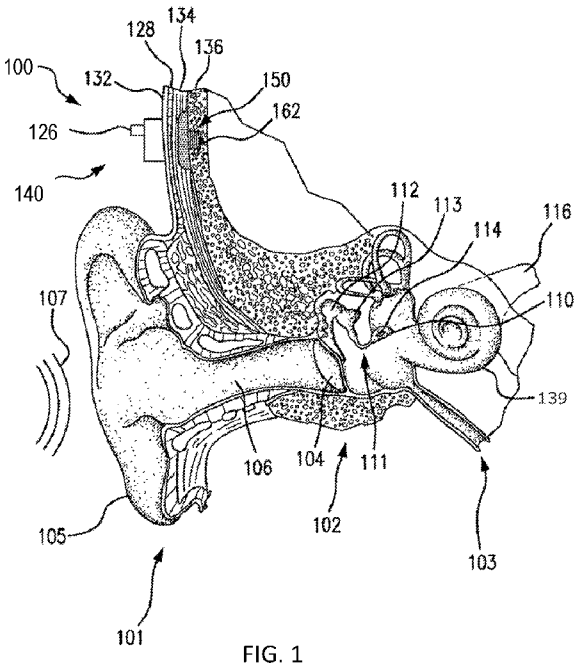


FIG. 1

(57) **Abstract:** A prosthesis including an implantable component including an LC circuit, wherein a piezoelectric material forms at least a part of the capacitance portion of the LC circuit, the piezoelectric material expands and/or contracts upon the application of a variable magnetic field to the inductor of the LC circuit, the LC circuit has an electrical self-resonance frequency below 20kHz, and the piezoelectric material forms part of an actuator configured to output a force to tissue of a recipient in which the implantable component is implanted.

WO 2017/187372 A3

[Continued on next page]

Published:

— *with international search report (Art. 21(3))*

(88) Date of publication of the international search report:

26 July 2018 (26.07.2018)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2017/052423

A. CLASSIFICATION OF SUBJECT MATTER

H04R 25/00(2006.01)i, H04R 17/00(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 23/00; A61F 2/18; H04R 17/00; A61N 1/00; H04R 31/00

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: prosthesis, aid, capacitor, inductor, circuit, auditory, vibration, housing

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2012-0088957 A1 (ROBERT BRUCE ALEXANDER ADAMSON et al.) 12 April 2012 See paragraphs [0010], [0026]-[0055] and figures 1-5.	1-5,7,10
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Y	US 2011-0046730 A1 (WERNER MESKENS) 24 February 2011 See paragraphs [0040]-[0077] and figures 2-5B.	6,8-9,11-31
A	US 2012-0308061 A1 (LIZHONG ZHU et al.) 06 December 2012 See paragraphs [0019]-[0024] and figures 1-4.	1-31
A	US 2015-0023540 A1 (EARLENS CORPORATION) 22 January 2015 See paragraphs [0086]-[0108] and figures 1-4.	1-31
A	KR 10-1109110 B1 (DONG HOON MIN) 24 February 2012 See paragraphs [0016]-[0038] and figures 1-8.	1-31

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

☒ See patent family annex.

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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

Date of the actual completion of the international search	Date of mailing of the international search report
19 July 2017 (19.07.2017)	**21 July 2017 (21.07.2017)**

Name and mailing address of the ISA/KR
International Application Division
Korean Intellectual Property Office
189 Cheongsa-ro, Seo-gu, Daejeon, 35208, Republic of Korea
Facsimile No. +82-42-481-8578

Authorized officer
KIM, Sung Gon
Telephone No. +82-42-481-8746

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/IB2017/052423

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