

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 February 2004 (12.02.2004)

PCT

(10) International Publication Number
WO 2004/014104 A3

(51) International Patent Classification⁷: **H04R 3/00**, 9/06

(21) International Application Number:

PCT/IB2003/003275

(22) International Filing Date: 18 July 2003 (18.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

02102077.1

31 July 2002 (31.07.2002) EP

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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

22 July 2004

(71) Applicant (*for all designated States except US*): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

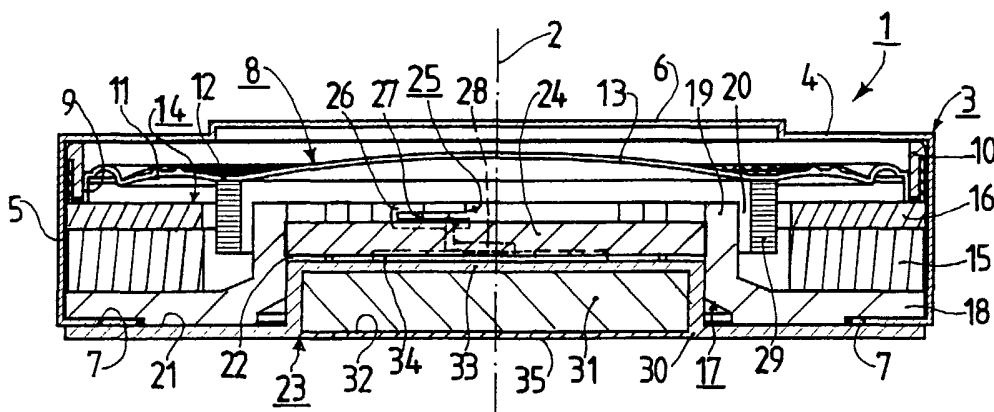
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **KLEIN, Erich** [AT/AT]; Triester Strasse 64, A-1101 Vienna (AT). **SCHOEFFMANN, Michael** [AT/AT]; Triester Strasse 64, A-1101 Vienna (AT).

(74) Agent: **WEBER, Helmut**; Philips Intellectual Property & Standards, Triester Strasse 64, A-1101 Vienna (AT).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ELECTROACOUSTIC TRANSDUCER WITH BUILT IN TRANSDUCER CIRCUIT



(57) Abstract: In an electroacoustic transducer (1), an annular shaped magnet system (14) is provided, enclosing an inner space (22), in which inner space (22) an integrated circuit (31) is accommodated, with the aid of which integrated circuit (31) an electrical signal to be sent to a moving coil (29) of transducer (1) can be amplified.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/IB 03/03275

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04R3/00 H04R9/06

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 7 H04R

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 practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP 0 022 544 A (TELEFONBAU & NORMALZEIT GMBH) 21 January 1981 (1981-01-21) abstract page 4, line 23 - line 31 page 7, line 5 - page 8, line 20; figures 2,3	1,2 4
X A	DE 32 13 819 A (STANDARD ELEKTRIK LORENZ AG) 27 October 1983 (1983-10-27) page 5, line 12 - page 6, line 10 page 7, line 13 - page 11, line 11; figures 1-4	1 4
A	US 6 243 472 B1 (BILAN FRANK ALBERT ET AL) 5 June 2001 (2001-06-05) cited in the application	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

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

E earlier document but published on or after the international filing date

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)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

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

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

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.

G document member of the same patent family

Date of the actual completion of the international search

12 May 2004

Date of mailing of the international search report

19/05/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Fuchs, P

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 03/03275

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0022544	A	21-01-1981	DE 2927925 A1 AT 1836 T EP 0022544 A1	22-01-1981 15-12-1982 21-01-1981
DE 3213819	A	27-10-1983	DE 3213819 A1	27-10-1983
US 6243472	B1	05-06-2001	AU 9484498 A WO 9914980 A2	05-04-1999 25-03-1999