

(11) **EP 3 917 156 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 29.12.2021 Bulletin 2021/52

(51) Int Cl.: **H04R 1/10** (2006.01) H04R 25/00 (2006.01)

H04R 5/033 (2006.01)

(43) Date of publication A2: 01.12.2021 Bulletin 2021/48

(21) Application number: 21169117.5

(22) Date of filing: 22.02.2013

(84) Designated Contracting States:

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

(30) Priority: 23.02.2012 US 201261634195 P 03.07.2012 US 201261690852 P 09.08.2012 US 201261742419 P

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:

18196292.9 / 3 442 242 13751960.9 / 2 820 865

(71) Applicant: Eargo, Inc. San Jose, CA 95110 (US) (72) Inventors:

 MICHEL, Florent 74100 Vetraz-Monthoux (FR)

 MICHEL, Raphael Palo Alto, 94304 (US)

• SHEN, Danny Stanford, 94305 (US)

 PERRY, Michael Los Altos, 94024 (US)

(74) Representative: Elkington and Fife LLP Prospect House 8 Pembroke Road

Sevenoaks, Kent TN13 1XR (GB)

(54) ADJUSTABLE SECURING MECHANISM FOR A SPACE ACCESS DEVICE

(57) A securing mechanism comprising a plurality of outwardly projecting members having a plurality of contact points that are configured to contact a surface of an opening when disposed on a space access device that

is inserted in the opening, the securing mechanism being configured to apply a pressure to a contact surface within the opening less than approximately 10000 kPa.

EP 3 917 156 A3



PARTIAL EUROPEAN SEARCH REPORT

Application Number

under Rule 62a and/or 63 of the European Patent Convention. This report shall be considered, for the purposes of subsequent proceedings, as the European search report

EP 21 16 9117

	DOCUMENTS CONSID	ERED TO BE RELEVANT		
Category	Citation of document with in of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Х	US 5 572 594 A (DEN 5 November 1996 (19 * figures 2b,2c,4b * column 4, lines 5 * column 1, lines 9	996-11-05) * 54-67 *	1,3-6, 8-12	INV. H04R1/10 ADD. H04R5/033
X	US 2011/019851 A1 (JOSEPH [FR] ET AL) 27 January 2011 (20 * paragraphs [0057] figure 2B *	1,3,4,6	H04R25/00	
Α	WO 00/76271 A1 (INS 14 December 2000 (2 * page 20, lines 16	2000-12-14)	1,3-6, 8-12	
A	EP 1 385 355 A1 (PH 28 January 2004 (20 * paragraph [0050]	004-01-28)	1,3-6, 8-12	
				TECHNICAL FIELDS SEARCHED (IPC)
				H04R
INCO	MPLETE SEARCH			
		application, or one or more of its claims, does/d earch (R.62a, 63) has been carried out.	lo	
Claims se	arched completely :			
Claims se	earched incompletely :			
Claime no	ot searched :			
Jian II II	n ocusoned .			
	or the limitation of the search: Sheet C			
366	SHEEL C			
	Place of search	Date of completion of the search		Examiner
	Munich	16 November 2021	Rog	ala, Tomasz
C	ATEGORY OF CITED DOCUMENTS	T : theory or principle E : earlier patent docu	underlying the i	nvention shed on, or
X : part	icularly relevant if taken alone icularly relevant if combined with anot			
docu A : tech	ionally relevant in combined with a local iment of the same category inological background -written disclosure	L : document cited for	other reasons	corresponding

2

5

10

15

20

25

30

35

40

45

50

55



5

INCOMPLETE SEARCH SHEET C

Application Number

EP 21 16 9117

Claim(s) completely searchable: 1, 9 10 Claim(s) searched incompletely: 3-6, 8, 10-12 Claim(s) not searched: 15 Reason for the limitation of the search: The originally filed claims of the present application contained multiple independent claims in the same category (apparatus): 1, 2, 7 and 9. On 24.09.2021 and invitation under Rule 62a(1) EPC, to indicate the 20 subject-matter to be searched was issued. In reply, the applicants indicated claims 1 and 9 as defining alternative solutions falling under Rule 43(2)(c) EPC and requested the search to be based on these two independent claims. In particular, they submitted that claims 1 and 9 define constructional 25 alternatives for a space access device, the latter comprising a housing with a securing mechanism disposed on said housing, whereas the former shows a solution which does not involve said housing. The above argumentation is accepted. In consequence, the search report is based on the independent claims 1 and 9. Dependent claims 3-6, 8 and 10-12 were searched only partially, i.e. when dependent on claim 1 or 9 30 (excluding the subject-matter of independent claims 2 and 7). 35 40 45 50 55

EP 3 917 156 A3

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 21 16 9117

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

16-11-2021

	Patent document cited in search report		Publication date	Patent family member(s)	Publication date
	US 5572594	Α	05-11-1996	NONE	
	US 2011019851	A1	27-01-2011	CN 102498730 A EP 2457387 A2 EP 3355594 A1 JP 5765786 B2 JP 2013500626 A KR 20120068828 A SG 179552 A1 SG 10201406058Y A US 2011019851 A1 US 2013266168 A1 US 2014294213 A1 US 2015086054 A1 US 2016323682 A1 WO 2011011555 A2	13-06-2012 30-05-2012 01-08-2018 19-08-2015 07-01-2013 27-06-2012 30-05-2012 27-11-2014 27-01-2011 10-10-2013 02-10-2014 26-03-2015 03-11-2016 27-01-2011
	WO 0076271	A1	14-12-2000	AU 775626 B2 CA 2375886 A1 EP 1190600 A1 JP 4708645 B2 JP 2003501920 A US 6473513 B1 US 2002085728 A1 WO 0076271 A1	05-08-2004 14-12-2000 27-03-2002 22-06-2011 14-01-2003 29-10-2002 04-07-2002 14-12-2000
	EP 1385355	A1	28-01-2004	AU 2003204207 A1 CA 2432374 A1 EP 1385355 A1 JP 2004064764 A	12-02-2004 24-01-2004 28-01-2004 26-02-2004
FORM P0459					

© Lorentz Description | Compared to the European Patent Office, No. 12/82