



(11) **EP 4 270 381 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
17.04.2024 Bulletin 2024/16

(51) International Patent Classification (IPC):
G10K 11/178^(2006.01)

(43) Date of publication A2:
01.11.2023 Bulletin 2023/44

(52) Cooperative Patent Classification (CPC):
**G10K 11/1783; G10K 11/17823; G10K 11/17825;
G10K 11/17827; G10K 11/17857; G10K 11/17861;
G10K 11/17879; G10K 11/17881; G10K 11/17885;
G10K 2210/108; G10K 2210/12; G10K 2210/3026;
G10K 2210/3214; G10K 2210/3219;
G10K 2210/3221**

(21) Application number: **23175937.4**

(22) Date of filing: **27.12.2015**

(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: **28.12.2014 US 201462097086 P**

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
15875343.4 / 3 238 209

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(54) **APPARATUS, SYSTEM AND METHOD OF CONTROLLING NOISE WITHIN A
NOISE-CONTROLLED VOLUME**

(57) Some demonstrative embodiments include devices, systems and methods of noise control. For example, a noise control system may be configured to process one or more first noise inputs from one or more first acoustic sensors, the one or more first noise inputs representing external noise sensed at one or more respective noise sensing locations on an outer surface of a sheltering structure; to process one or more second noise inputs from one or more second acoustic sensors, the

one or more second noise inputs representing residual noise at one or more respective residual noise sensing locations on an inner surface of the sheltering structure; to determine a noise control pattern based at least on the one or more first noise inputs and the one or more second noise inputs; and to generate one or more control signals to control acoustic signals generated by one or more acoustic transducers based on the noise control pattern.

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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

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DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP H08 296335 A (MATSUSHITA ELECTRIC IND CO LTD) 12 November 1996 (1996-11-12) * paragraphs [0001], [0009]; figures 1, 2 *	1, 3, 4, 6, 10-13	INV. G10K11/178
A	JP H07 15566 A (SEKISUI CHEMICAL CO LTD) 17 January 1995 (1995-01-17) * paragraph [0014] - paragraph [0018]; figure 4 *	1-14	
A	JP H05 94898 U (??) 24 December 1993 (1993-12-24) * paragraph [0003]; figure 5 *	1-14	
A	WO 98/04079 A2 (ERICSSON GE MOBILE INC [US]) 29 January 1998 (1998-01-29) * claim 1 *	1-14	
A	US 2006/285697 A1 (NISHIKAWA MASAO [US] ET AL) 21 December 2006 (2006-12-21) * paragraph [0094]; figure 18 *	1-14	
			TECHNICAL FIELDS SEARCHED (IPC)
			G10K

INCOMPLETE SEARCH

The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.

Claims searched completely :

Claims searched incompletely :

Claims not searched :

Reason for the limitation of the search:

see sheet C

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Place of search	Date of completion of the search	Examiner
The Hague	29 February 2024	Lorne, Benoît
CATEGORY OF CITED DOCUMENTS		
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document		

EPO FORM 1503 03/82 (P04E07)

INCOMPLETE SEARCH
SHEET C

Application Number

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Claim(s) completely searchable:
1-14

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Claim(s) not searched:
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Reason for the limitation of the search:

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Independent claims 1 and 15 do not comply with Rule 43, paragraph 2. The applicant has been invited under Rule 62a(1) EPC to indicate the basis on which the search is to be carried out on 10-11-2023.

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No reply has been received within the period of two months set in the EPO communication. The search has been restricted to the subject matter of the first independent claim [claims 1-14] (see Guidelines of Examination in the EPO, B-VIII-4.2.1).

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

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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
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29-02-2024

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