



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 18 89 59 21

Classification of the application (IPC):

G06F 3/16, G10L 15/20, G10L 21/16, G10L 25/78, H04R 3/00, H04R 5/04, H04R 27/00, G10L 15/22, G10L 21/0208

Technical fields searched (IPC):

H04R, G06F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 8971543 B1 (LIST TIMOTHY T [US]) 03 March 2015 (2015-03-03)	1, 2
Y	* column 2, lines 9-36; figures 1-3 * * column 5, lines 22-51 *	3-13
Y	US 9692742 B1 (VANLUND PETER SPALDING [US] ET AL) 27 June 2017 (2017-06-27) * column 11, line 21 - column 12, line 6; figures 1,3 *	3-13
A	US 2015189439 A1 (STAROBIN BRADLEY M [US]) 02 July 2015 (2015-07-02) * abstract; figures 1-5 *	1-15

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 22 December 2021	Examiner Righetti, Marco
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CATEGORY OF CITED DOCUMENTS

- | | |
|---|--|
| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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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 22-12-2021.
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 8971543 B1	03-03-2015	US 8971543 B1	03-03-2015
		US 9706306 B1	11-07-2017
		US 10123119 B1	06-11-2018
US 9692742 B1	27-06-2017	NONE	
US 2015189439 A1	02-07-2015	NONE	