



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 19 84 82 30

### Classification of the application (IPC):

G06F 16/10, G06F 16/73, G06T 15/20, G06T 1/60, G06T 19/00, H04N 21/4223, G06F  
H04N 21/44, H04N 21/4722, H04N 21/658, H04N 21/81, G06V 10/20

### Technical fields searched (IPC):

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 8606645 B1 (APPLEFELD NEAL [US]) 10 December 2013 (2013-12-10) * abstract; figure 5 * * column 6, line 50 - column 7, line 3; figure 1 * * column 7, line 38 - line 65; figures 1,2 * * column 2, line 40 - line 50 *	1-14
A	US 9424461 B1 (YUAN CHANG [US] ET AL) 23 August 2016 (2016-08-23) * column 2, line 36 - line 62 *	3-7, 12
A	US 9720934 B1 (DUBE SIMANT [US] ET AL) 01 August 2017 (2017-08-01) * column 1, line 7 - line 12 * * column 5, line 39 - line 54 *	9

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 10 March 2022	Examiner Deane, Inigo
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### CATEGORY OF CITED DOCUMENTS

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|---|--|
| 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                        |
| A: technological background   | E: earlier patent document, but published on, or after the filing date |
| O: non-written disclosure   | D: document cited in the application                                   |
| & : member of the same patent family, corresponding document                    | L: document cited for other reasons                                    |

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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 10-03-2022  
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 8606645	B1	10-12-2013	NONE	
US 9424461	B1	23-08-2016	NONE	
US 9720934	B1	01-08-2017	US 9720934 B1	01-08-2017
			US 2017255648 A1	07-09-2017