

SUPPLEMENTARY EUROPEAN SEARCH REPORT

Classification of the application (IPC): G06Q 10/08, G06Q 30/06, G06T 7/70, G06K 9/00, G06F 3/14, G06T 7/20, G06N 3/04, G06N 3/08, G06Q 20/32, G06Q 20/40, G06V 20/52, H04L 67/04, H04L 67/131, H04L 67/306

Technical fields searched (IPC): G06Q, G06T, G06K

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim			
x	US 2015085111 A1 (LAVERY RICHARD J [US])	1-3, 6-15			
Y	26 March 2015 (2015-03-26)	4, 5			
	* paragraphs [0009], [0016], [0022] - [0029] *	4, 5			
Y	US 2013337789 A1 (JOHNSON WILLIAM J [US]) 19 December 2013 (2013-12-19) * paragraphs [0015], [0016], [0395] *	4, 5			
A	US 2015029339 A1 (KOBRES ERICK CHRISTIAN [US] ET AL) 29 January 2015 (2015-01-29) * paragraphs [0033], [0035] - [0038] *	4, 5			
х	US 2013142384 A1 (OFEK EYAL [US]) 06 June 2013 (2013-06-06) * paragraphs [0027] - [0031] *	1-3, 6, 7, 10-15			
A	US 2012137256 A1 (LALANCETTE RICHARD [CA] ET AL) 31 May 2012 (2012-05-31) * paragraphs [0031], [0033], [0041] *	5			
A	US 2016232677 A1 (LIAO KE [CN] ET AL) 11 August 2016 (2016-08-11) * paragraphs [0070], [0079], [0094], [0095], [0128] *	7, 8, 14			
Y	CN 108055390 A (WU DONGHUI) 18 May 2018 (2018-05-18) * paragraphs [0013] - [0018], [0063], [0069], [0073] *	4, 5			

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

avaliable at the start of the search.								
Place of search Munich	Date of completion of the search 23 February 2022	Examiner Hopper, Eva						
CATEGORY OF CITED DOCUMENTS								
X: particularly relevant if taken alone Y : particularly relevant if combined with anoth	P: intermediate document T: theory or principle und	-						

particularly relevant if combined with another Υ:

document of the same category **A**: technological background

O: non-written disclosure

& : member of the same patent family, corresponding document

- theory or principle underlying the invention earlier patent document, but published on, or after the filing date E:
- D: document cited in the application
- L: document cited for other reasons

© 2020 org.epo.publication.kb xsl stylesheet v1.0.1SRnfp

Disclaimer: this document has been automatically generated using data structured in accordance with WIPO standard ST.36 from the database of search reports of the European Patent Office. For technical reasons, its content and layout may differ from that of the original publication. Only the original published information is legally binding.

EP 3 827 408 A4



ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number: EP 19 84 07 60

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 23-02-2022 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2015085111	A1	26-03-2015	US WO	2015085111 A1 2015047668 A1	26-03-2015 02-04-2015
US 2013337789	A1	19-12-2013	US US US US US US US US US	2013337789 A1 2013337836 A1 2013337841 A1 2013339185 A1 2013339498 A1 2014302877 A1 2015319563 A1 2016337799 A1 2019037354 A1	19-12-2013 19-12-2013 19-12-2013 19-12-2013 19-12-2013 09-10-2014 05-11-2015 17-11-2016 31-01-2019
US 2015029339	A1	29-01-2015	NONE		
US 2013142384	A1	06-06-2013	NONE		
US 2012137256	A1	31-05-2012	NONE		
US 2016232677	A1	11-08-2016	CN JP JP US	105987694 A 6142931 B2 2016154329 A 2016232677 A1	05-10-2016 07-06-2017 25-08-2016 11-08-2016
CN 108055390	А	18-05-2018	NONE		

For more details about this annex: see Official Journal of the European Patent Office, No. 12/82