



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 87 40 95

Classification of the application (IPC):

G07C 9/00, G07F 17/00, B62H 5/20, E05B 47/00, B62H 5/00, E05B 71/00,
G06Q 20/14, G06Q 20/32, G06Q 20/40, E05B 35/00

Technical fields searched (IPC):

G07C

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2010011418 A1 (DESPAIN JAY [US] ET AL) 14 January 2010 (2010-01-14) * paragraphs [0010], [0037], [0042], [0048], [0052], [0055]; claim 9; figures 4, 5a, 5j, 5k *	1-15
X	US 2014049362 A1 (AHEARN JOHN ROBERT [US] ET AL) 20 February 2014 (2014-02-20) * paragraphs [0009] - [0011], [0015], [0017] *	1-15
A	US 2015199863 A1 (SCOGGINS CHUCK [US] ET AL) 16 July 2015 (2015-07-16) * paragraphs [0108], [0117], [0119], [0123]; figure 11 *	1, 2, 10, 11, 14, 15
A	EP 2743868 A1 (SEVEN PRINCIPLES AG [DE]) 18 June 2014 (2014-06-18) * paragraphs [0024], [0052] *	3, 4, 12, 13
A	US 2011025459 A1 (DENISON WILLIAM D [US] ET AL) 03 February 2011 (2011-02-03) * paragraph [0133] - paragraph [0135]; claim 1 *	5, 6

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 The Hague	Date of completion of the search 24 September 2019	Examiner Verhoof, Paul
------------------------------	---	---------------------------

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
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

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.



ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 17 87 40 95

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 24-09-2019
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 2010011418 A1	14-01-2010	CA 2516704 A1	10-09-2004
		US 2004219903 A1	04-11-2004
		US 2010011418 A1	14-01-2010
		WO 2004077848 A2	10-09-2004
US 2014049362 A1	20-02-2014	US 2014049362 A1	20-02-2014
		US 2017092031 A1	30-03-2017
		US 2019051075 A1	14-02-2019
US 2015199863 A1	16-07-2015	GB 2541805 A	01-03-2017
		US 2015199863 A1	16-07-2015
		US 2018130276 A1	10-05-2018
		US 2019236877 A1	01-08-2019
		WO 2015109063 A1	23-07-2015
EP 2743868 A1	18-06-2014	NONE	
US 2011025459 A1	03-02-2011	NONE	