



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 15 86 61 97

Classification of the application (IPC):
E05B 65/00, E05B 17/20

Technical fields searched (IPC):
E05B

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2823536 A (WATSON WILLIAM J) 18 February 1958 (1958-02-18) * column 1, line 41 - column 3, line 41; figures 1-3 *	1-10
X	US 2947160 A (WOLTERS CARL F) 02 August 1960 (1960-08-02) * column 1, line 65 - column 4, line 22; figures 1-5 *	1-10
A	US 1655975 A (SCHMIDT LEONIDAS C) 10 January 1928 (1928-01-10) * the whole document *	1-10
A	US 2013154462 A1 (CHO WOO YOUN [KR] ET AL) 20 June 2013 (2013-06-20) * paragraph [0028] - paragraph [0031]; figure 1 *	1, 10

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 27 June 2018	Examiner Goddar, Claudia
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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
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 27-06-2018
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2823536	A	18-02-1958	NONE	
US 2947160	A	02-08-1960	NONE	
US 1655975	A	10-01-1928	NONE	
US 2013154462	A1	20-06-2013	CN DE US	103174327 A 102012024864 A1 2013154462 A1
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