



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 22 81 57 71

**Classification of the application (IPC):**  
E04B 2/56, E04B 1/76, E04B 1/348

**Technical fields searched (IPC):**  
E04B, E04C

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	DE 202020005081 U1 (WOLF WERNER O [DE]; WULF UDO G [DE]) 31 March 2021 (2021-03-31) * paragraph [0011] - paragraph [0044]; figures 4-12 *	1-8
X	US 2018073244 A1 (CONYBEARE NIGEL PAUL [GB]) 15 March 2018 (2018-03-15) * paragraph [0141] - paragraph [0274]; figures 13,16,17,20 *	1-8

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	Date of completion of the search	Examiner
The Hague	16 August 2024	Melhem, Charbel

### CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone  
 Y: particularly relevant if combined with another document of the same category  
 A: technological background  
 O: non-written disclosure  
 & : member of the same patent family, corresponding document

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



## 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 16-08-2024.  
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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
DE 202020005081	U1	31-03-2021	NONE	
US 2018073244	A1	15-03-2018	AU CN EP GB RU US WO	2016240308 A1 107771234 A 3277895 A1 2538850 A 2017132885 A 2018073244 A1 2016156855 A1
				05-10-2017 06-03-2018 07-02-2018 30-11-2016 06-05-2019 15-03-2018 06-10-2016