



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 17 92 18 51

**Classification of the application (IPC):**

**A63B 69/06, A63B 23/04, A63B 21/00, A63B 22/00, A63B 21/008, A63B 23/02, A63B 23/035**

**Technical fields searched (IPC):**

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	WO 2017133048 A1 (LIU ZONGBING [CN]) 10 August 2017 (2017-08-10) * page 1, line 19 - page 5, line 22; figures 1-5 *	1-10
A	US 4846460 A (DUKE JOHN H [US]) 11 July 1989 (1989-07-11) * column 3, line 37 - column 6, line 7; figures 1-10 *	1-10
A	CN 205994998 U (CAI WENJIN) 08 March 2017 (2017-03-08) * paragraph [0004] - paragraph [0021]; figures 1-3 *	1-10
A	WO 03013661 A1 (GEARON MICHAEL [AU]) 20 February 2003 (2003-02-20) * page 7, line 19 - page 27, line 20; figures 1-10 *	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 Munich	Date of completion of the search 15 April 2021	Examiner Jekabsons, Armands
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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 15-04-2021  
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