



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 20 89 67 32

Classification of the application (IPC):
A63B 53/00, A63B 53/04, A63B 53/06

Technical fields searched (IPC):
A63B

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 2013102415 A1 (SHIMAZAKI HIDEO [JP]) 25 April 2013 (2013-04-25)	1-4, 6-9
Y	* paragraph [0050] - paragraph [0093]; figures 1-23 *	10-13, 15-20
X	JP 2004167115 A (MIZUNO TECHNICS KK) 17 June 2004 (2004-06-17)	1, 5
Y	* paragraph [0005] - paragraph [0035]; figures 1-8 *	10, 14
Y	US 2007202963 A1 (OYAMA HITOSHI [JP]) 30 August 2007 (2007-08-30)	10-20
	* paragraph [0017] - paragraph [0078]; figures 1-8 *	
A	US 2019083862 A1 (JERTSON MARTIN R [US] ET AL) 21 March 2019 (2019-03-21)	1-20
	* paragraph [0099] - paragraph [1035]; figures 1-176 *	
A	US 2010000071 A1 (RICE BRADLEY C [US]) 07 January 2010 (2010-01-07)	1-20
	* paragraph [0049] - paragraph [0098]; figures 1-20 *	
A	US 2019201754 A1 (HOFFMAN JOSEPH H [US] ET AL) 04 July 2019 (2019-07-04)	1-20
	* paragraph [0135] - paragraph [0321]; figures 1-58 *	

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 16 December 2022	Examiner Jekabsons, Armands
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CATEGORY OF CITED DOCUMENTS

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|---|--|
| 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 16-12-2022
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