



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 16 77 67 21

Classification of the application (IPC):

A63B 41/00, A63B 37/00, A63B 39/00, A63B 43/00, A63B 41/08, A63B 41/10, A63B 39/06

Technical fields searched (IPC):

A63B 39/06

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X,P A,P	WO 2015099186 A1 (MOLTEN CORP [JP]) 02 July 2015 (2015-07-02) * paragraph [0055]; figure 22 *	1, 2 3
X	EP 2042648 A1 (KURARAY CO [JP]) 01 April 2009 (2009-04-01) * paragraphs [0001] - [0018], [0036] - [0042], [0116] - [0117]; claims; figures *	1-3
X	EP 1604710 A1 (TEIJIN CORDLEY LTD [JP]) 14 December 2005 (2005-12-14) * paragraphs [0007], [0027]; claims; figures *	1-3
X A	US 2010248873 A1 (COOPER JOHN SCOTT [US]) 30 September 2010 (2010-09-30) * paragraphs [0057] - [0058]; claims; figures *	1, 2 3
X	EP 1514967 A1 (KURARAY CO [JP]) 16 March 2005 (2005-03-16) * paragraphs [0054] - [0055]; claims; figures *	1, 2
X	US 5851161 A (SASSAK MARK S [US]) 22 December 1998 (1998-12-22) * columns 1-4; claims; figures *	1, 2

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 18 October 2018	Examiner Herry, Manuel
---------------------------	---	---------------------------

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 16 77 67 21

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 18-10-2018
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	
WO2015099186	A1	02-07-2015	CN	105828892 A	03-08-2016
			EP	3088054 A1	02-11-2016
			JP	WO2015099186 A1	23-03-2017
			KR	20160111367 A	26-09-2016
			US	2016310802 A1	27-10-2016
			WO	2015099186 A1	02-07-2015
EP 2042648	A1	01-04-2009	CA	2656547 A1	03-01-2008
			CN	101583757 A	18-11-2009
			EP	2042648 A1	01-04-2009
			JP	4956538 B2	20-06-2012
			JP	WO2008001716 A1	26-11-2009
			KR	20090024293 A	06-03-2009
			TW	200819588 A	01-05-2008
			US	2009186724 A1	23-07-2009
			WO	2008001716 A1	03-01-2008
EP 1604710	A1	14-12-2005	BR	PI0408356 A	21-03-2006
			CA	2519468 A1	30-09-2004
			EP	1604710 A1	14-12-2005
			KR	20050114644 A	06-12-2005
			US	2006199686 A1	07-09-2006
			WO	2004082774 A1	30-09-2004
US 2010248873	A1	30-09-2010	NONE		
EP 1514967	A1	16-03-2005	CA	2480941 A1	12-03-2005
			CN	1593698 A	16-03-2005
			DE	602004000237 T2	24-08-2006
			EP	1514967 A1	16-03-2005
			JP	4060770 B2	12-03-2008
			JP	2005087315 A	07-04-2005
			KR	20050027150 A	17-03-2005
			TW	200519270 A	16-06-2005
			US	2005058794 A1	17-03-2005
US 5851161	A	22-12-1998	US	5851161 A	22-12-1998
			US	5984812 A	16-11-1999