



**SUPPLEMENTARY EUROPEAN SEARCH REPORT**

Application number:  
EP 16 79 98 10

**Classification of the application (IPC):**  
D01F 8/12, D02G 1/02, D03D 15/00, D01F 8/14, D01D 5/34

**Technical fields searched (IPC):**  
D01D, D02G, D01F

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	JP H1018136 A (TORAY INDUSTRIES) 20 January 1998 (1998-01-20)	1-4
Y	* paragraphs [0004], [0005], [0025], [0026], [0027], [0032], [0033], [0036]; figures 1-6 *	5
X	JP 2007321295 A (TEIJIN LTD; TEIJIN FIBERS LTD) 13 December 2007 (2007-12-13) * paragraphs [0008], [0009], [0011], [0018], [0019]; table 1 *	1, 2, 4
Y	US 2013280513 A1 (ITOU KENJI [JP] ET AL) 24 October 2013 (2013-10-24) * paragraphs [0013], [0019] *	5

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 15 November 2018	Examiner Van Beurden-Hopkins
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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 15-11-2018  
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP H1018136	A	20-01-1998	NONE	
JP 2007321295	A	13-12-2007	NONE	
US 2013280513	A1	24-10-2013	CN EP JP JP KR US WO	102834556 A 2554721 A1 5741434 B2 WO2011122272 A1 20130040793 A 2013280513 A1 2011122272 A1
				19-12-2012 06-02-2013 01-07-2015 08-07-2013 24-04-2013 24-10-2013 06-10-2011