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## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 18 82 07 44

### Classification of the application (IPC):

D21H 11/18, B82Y 30/00, D21C 1/02, D21C 9/00, D21H 21/10, D21H 21/18

### Technical fields searched (IPC):

D21C, D21H

### DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	WO 2017058980 A2 (API IP HOLDINGS LLC [US]) 06 April 2017 (2017-04-06) * claims 1-16 * * paragraph [0058] - paragraph [0096] *	1-11
X	JP 2016204277 A (MANIWA BIO-CHEM CO LTD) 08 December 2016 (2016-12-08) * paragraph [0015] - paragraph [0019] * * example 1 *	1-10
X	<b>KUMAGAI AKIO ET AL:</b> "Thin Film of Lignocellulosic Nanofibrils with Different Chemical Composition for QCM-D Study" <i>BIOMACROMOLECULES</i> US 30 May 2013 (2013-05-30), vol. 14, no. 7, pages 2420-2426 URL: <a href="https://pubs.acs.org/doi/pdf/10.1021/bm400553s">https://pubs.acs.org/doi/pdf/10.1021/bm400553s</a> , ISSN: 1525-7797, XP055784260 * table 1 * * page 2421, paragraph Experimental Section *	1-10
X	<b>OSONG ET AL:</b> "Paper strength improvement by inclusion of nano-ligno-cellulose to Chemi-thermomechanical pulp" <i>NORDIC PULP &amp; PAPER RESEARCH JOURNAL</i> SE 01 June 2014 (2014-06-01), vol. 29, no. 2, DOI: 10.3183/NPPRJ-2014-29-02-p309-316, ISSN: 0283-2631, pages 309-316, XP055441292 * abstract * * page 310, paragraph Chemi-thermomechanical pulp * * page 311, paragraph Nano-ligno-cellulose/nanocellulose production *	11

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 12 March 2021	Examiner Billet, Aina
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EP 18 82 07 44

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	<p><b>ESPINOSA EDUARDO ET AL:</b> "The effect of pre-treatment on the production of lignocellulosic nanofibers and their application as a reinforcing agent in paper" <i>CELLULOSE</i>, <i>SPRINGER NETHERLANDS</i>, <i>NETHERLANDS</i>, 03 April 2017 (2017-04-03), vol. 24, no. 6, DOI: 10.1007/S10570-017-1281-2, ISSN: 0969-0239, pages 2605-2618, XP036229652</p> <p>* abstract *</p> <p>* page 2606 *</p>	1-11

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 12 March 2021	Examiner Billet, Aina
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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
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& : member of the same patent family, corresponding document	L: document cited for other reasons

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## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 18 82 07 44

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2017058980      A2	06-04-2017	CA      3002683 A1	06-04-2017
		CN      108350653 A	31-07-2018
		EP      3356595 A2	08-08-2018
		US      2017210826 A1	27-07-2017
		US      2018298113 A1	18-10-2018
		WO      2017058980 A2	06-04-2017
JP 2016204277      A	08-12-2016	NONE	