

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT4672302

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOHANNA LIUKKONEN	10/24/2017
SANNA HAAVISTO	10/24/2017
PASI SELENIUS	10/24/2017
JUHA SALMELA	10/24/2017
JANNE PORANEN	10/24/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SPINNOVA OY
<b>Street Address:</b>	ASEMATIE 11
<b>City:</b>	VAAJAKOSKI
<b>State/Country:</b>	FINLAND
<b>Postal Code:</b>	40800
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15569089
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	email@berggren-usa.com
<b>Correspondent Name:</b>	BERGGREN INC.
<b>Address Line 1:</b>	221 RIVER STREET 9TH FLOOR
<b>Address Line 4:</b>	HOBOKEN, NEW JERSEY 07030
<b>ATTORNEY DOCKET NUMBER:</b>	PI100410
<b>NAME OF SUBMITTER:</b>	LEEA SUSANNE SOMERSALO
<b>SIGNATURE:</b>	/Leea Susanne Somersalo/
<b>DATE SIGNED:</b>	11/03/2017
<b>Total Attachments: 3</b>	
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ASSIGNMENT

WHEREAS, WE:

LIUKKONEN, Johanna, residing at  
Huhtalammentie 9, As. 19, FI-40640 Jyväskylä, Finland

HAAVISTO, Sanna, residing at  
Puistokatu 10 A 1, FI-40100 Jyväskylä, Finland

SELENIUS, Pasi, residing at  
Luotipohja 2, FI-41400 Liestuore, Finland

SALMELA, Juha, residing at  
Koskentie 52, FI-41340 Laukaa, Finland

PORANEN, Janne, residing at  
Erätie 30, FI-40950 Muurame, Finland

(hereinafter ASSIGNORS), are the inventors of the invention described in U.S. Patent Application entitled:

CHEMICAL METHOD AND SYSTEM FOR THE MANUFACTURE OF FIBROUS YARN

having the international application number PCT/FI2016/050269 filed on 25 April 2016.

WHEREAS, WE covenant that the rights and property herein conveyed are free and clear of any encumbrance, and that we have the full right to convey the same as herein expressed.

WHEREAS, SPINNOVA OY, having a place of business at , Asematie 11, FI-40800 Vaajakoski, Finland, and its successors, assigns and legal representatives (hereinafter ASSIGNEE), is desirous of obtaining the ASSIGNORS' entire right, title and interest in, to and under the invention disclosed in said application;

NOW, THEREFORE, for good and valuable consideration of the sum of one dollar (\$1), sufficiency and receipt of which is hereby acknowledged, we said ASSIGNORS do hereby sell, assign and transfer or confirm the grant and assignment to said ASSIGNEE our right, title and interest in all countries of the world in and to our invention described in said application for Patents, in and to the right to file patent application in the name of ASSIGNEE, its designees, or in any or all of our names, at its election, on the aforesaid invention in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified application for Patents under the Paris Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement relating to patents or intellectual property, in and to any and all Letters Patent that are granted from the aforesaid application for Patents, in and to any application claiming priority benefits to the patent application or other applications filed on said invention, and in and to any continuations, divisions, reexaminations, reissues, renewals and extensions thereof of any said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, to the full ends of the terms for which all Letters

Patent therefore may be granted, as fully and entirely as the same would have been held and enjoyed by ourselves if this assignment and sale had not been made.

AND WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, without further compensation or charge to said ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing invention, patent applications, and Letters Patent and continuations, divisions, reexaminations, reissues, renewals and extensions thereof in the name of ASSIGNEE, including the procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein.

AND WE HEREBY authorize and request from the Commissioner of Patents of the United States, and of any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention or improvements to said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY further covenant and agree that we will communicate to ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, reissue, continuation and continuation-in-part applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or improvements in all countries.

AND WE HEREBY further grant the firm Berggren Inc. of 221 River St., 9th Floor, Hoboken, NJ 07030, USA the power to insert on this Assignment any further indication, including the application serial number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

This document may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such components shall together constitute but one and the same document.

Executed this 24 day of October, 2017

  
\_\_\_\_\_  
Johanna LIUKKONEN, Inventor

Executed this 24 day of OCTOBER, 2017



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Sanna HAAVISTO, Inventor

Executed this 24 day of OCTOBER, 2017



\_\_\_\_\_  
Pasi SELENIUS, Inventor

Executed this 24 day of October, 2017



\_\_\_\_\_  
Juha SALMELA, Inventor

Executed this 24 day of OCTOBER, 2017



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Janne PORANEN, Inventor