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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
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JOHANNA LIUKKONEN		02/23/2018
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RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16481168

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DATE SIGNED:	07/31/2019
Total Attachments: 3 source=Assignment_from_Inventor_PI1 source=Assignment_from_Inventor_PI1 source=Assignment_from_Inventor_PI1	00695#page2.tif

PATENT APPLICATION / WORLDWIDE

ASSIGNMENT

In consideration of the sum of one dollar and other good and valuable consideration, the receipt and sufficiency of which is acknowledged, we, the undersigned, whose names and full post addresses are set out below:

Johanna Liukkonen	Hietatie 25, 40530 Jyväskylä, Finland
Sanna Haavisto	Puistokatu 10 A 1, 40100 Jyväskylä, Finland
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Pia Vento	Kovasentie 10, 40800 Vaajakoski, Finland
Karri Björklund	Vehkakuja 2 C 9, 40700 Jyväskylä, Finland

do hereby sell or have sold, assign or have assigned, and transfer or have transferred unto SPINNOVA OY, hereinafter called the Assignee, whose full post office address Asematie 11, 40800 Vaajakoski, Finland and to the Assignee's successors, assigns, nominees or other legal representatives, our entire right, title, interest, property and benefit for Canada, the United States of America and all other countries worldwide, in and to our invention relating to

A natural fiber based staple fibers, a method and apparatus for manufacturing such

as fully set forth and described in a International patent application PCT/FI2018/050115 filed 15 February 2018,

together with our entire right, title, interest, property and benefit for Canada, the United States of America and all other countries worldwide, in and to the aforementioned application, any foreign applications corresponding thereto and any Letters Patent which may issue for the invention from such applications, including all divisions, continuations, continuations-in-part, re-examinations, reissues and extensions, and any rights of priority resulting from the filing of the above-identified application under international conventions, treaties or otherwise, the same to be held and enjoyed as fully and exclusively as they would have been by us had this sale, assignment and transfer not been made;

PATENT REEL: 049910 FRAME: 0234

We hereby authorize any official whose duty it is to grant patents, to grant any Letters Patent for the invention to the Assignee, and to its successors, assigns, nominees or other legal representatives;

We hereby covenant and agree, for ourselves and for our heirs, executors and administrators, to do all such things and to execute and deliver without further consideration such further assurances, applications, instruments, assignments and other documents as may reasonably be required by the Assignee to obtain Letters Patent in Canada, the United States of America and all other countries worldwide, for the invention, and vest or secure the same in the Assignee; In witness whereof, we have hereunto signed our names on the day and year set forth

below.

Date of assignment: 15 February 201	7
Signed in Jyvaskyla	
this <u>23</u> day of <u>Serbruary</u>	, 2018
Johan hieldan	Som Haques
Johanna Liukkonen	Sanna Haavisto
Jur files	J Ella
Pasi Selenius	Juha Salmela
	Atto Salie
Janne Poranen	Arto Salminen
MM	Rev Ven
Marko Myllys	Pia Vento
the Bar	
Karri Björklund	

STATEMENT BY WITNESS

I was personally present and did see

Johanna Liukkonen, Sanna Haavisto, Pasi Selenius, Juha Salmela, Janne Poranen, Arto Salminen, Marko Myllys, Pia Vento, Karri Björklund

execute the within assignment and such assignors are personally known to me and to be the persons described in such document.

1000

Signature of Witness

E. Arelin

Name of the Witness

Name of the WitnessName of the WitnessTograpolleu 3 KinkomalSavonmäentle 32 VaajakossiAddress of the WitnessAddress of the Witness

I was personally present and did see

Johanna Liukkonen, Sanna Haavisto, Pasi Selenius, Juha Salmela, Janne Poranen, Arto Salminen, Marko Myllys, Pia Vento, Karri Björklund

execute the within assignment and such assignors are personally known to me and to be the persons described in such document.

dema Runnon

Signature of Witness

LEDNA RUUSUVIRTA