503839454 05/24/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3886102

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAAKKO NOUSIAINEN	05/18/2016
PETRI KUKKONEN	05/20/2016
JARI KOTONEVA	05/18/2016
TEEMU LINDBERG	05/23/2016
TIMO AIJALA	04/25/2016

RECEIVING PARTY DATA

Name:	UPM-KYMMENE CORPORATION
Street Address:	ALVAR AALLON KATU 1
City:	HELSINKI
State/Country:	FINLAND
Postal Code:	FI-00100

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15027737

CORRESPONDENCE DATA

Fax Number: (860)286-0115

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.

Phone: 8602862929

Email: Inolan@cantorcolburn.com
Correspondent Name: CANTOR COLBURN LLP
Address Line 1: 20 CHURCH STREET

Address Line 2: 22ND FLOOR

Address Line 4: HARTFORD, CONNECTICUT 06103

ATTORNEY DOCKET NUMBER:	BCO0007US
NAME OF SUBMITTER:	J. MICHAEL BUCHANAN
SIGNATURE:	/J. Michael Buchanan/
DATE SIGNED:	05/24/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT 503839454 REEL: 038696 FRAME: 0060

Total Attachments: 5 source=7LY1260#page1.tif source=7LY1257#page1.tif source=7LY1242#page1.tif source=7LY1232#page1.tif source=7LY1247#page1.tif

PATENT REEL: 038696 FRAME: 0061 B3177PC-US (BCO0007US)

DECLARATION AND ASSIGNMENT

Title of Invention: THE PROCESS FOR PRODUCING HYDROCARBONS FROM CRUDE TALL OIL AND TALL OIL PITCH

As a below named inventor, I hereby declare that:

This declaration is directed to United States application number <u>15/027,737</u> filed on <u>04/07/2016</u> which is the National Stage Filing of International Application No. <u>PCT/FI2014/050786</u> filed on 10/16/<u>2014</u> which claims priority to Finnish application number FI 20136031 filed on 10/17/2013.

The above-identified application was made or authorized to be made by me, and I have reviewed and understand the contents of the application, including the claims.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION");

Whereas, UPM-Kymmene Corporation, a limited company organized and existing under the laws of Finland, having a place of business at Alvar Aallon katu 1, FI-00100 Helsinki, FI, (herein referred to as "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor (herein referred to ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the any and all countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made, and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

Each undersigned inventor also hereby grants ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Declaration and Assignment any further identification of the APPLICATION (including, but not limited to, patent Application Number and filing date).

Signature	Date: \\ \S \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Legal Name of Inventor: Jaakko Nousiainen	
Date: (8.5. AV6	
Printed Name of Witness: Est Mangalainen	Printed Name of Witness: <u>\\\ \ANNU \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>

B3177PC-US (BCO0007US)

DECLARATION AND ASSIGNMENT

Title of Invention: THE PROCESS FOR PRODUCING HYDROCARBONS FROM CRUDE TALL OIL AND TALL OIL PITCH

As a below named inventor, I hereby declare that:

This declaration is directed to United States application number 15/027,737 filed on 04/07/2016 which is the National Stage Filing of International Application No. PCT/FI2014/050786 filed on 10/16/2014 which claims priority to Finnish application number FI 20136031 filed on 10/17/2013.

The above-identified application was made or authorized to be made by me, and I have reviewed and understand the contents of the application, including the claims.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION");

Whereas, UPM-Kymmene Corporation, a limited company organized and existing under the laws of Finland, having a place of business at Alvar Aallon katu 1, FI-00100 Helsinki, FI, (herein referred to as "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor (herein referred to ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the any and all countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

Each undersigned inventor also hereby grants ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Declaration and Assignment any further identification of the APPLICATION (including, but not limited to, patent Application Number and filing date).

Signature:	Pari	Culk	Date:	20/5/20	16
Legal Name of Inventor	Petri Ku	kkonen			
Zahar Qo	Doom.	Onton	a di	2/1/	<u>.</u>
Fred OF Lower	XXXV	Date: <u> </u>		<i></i>	_ Date: <u>20.5</u> 2016
Printed Name of Witness	KRUST	MY SEXMIN	Printed Name of Witnes	r ss: Alle E	La Jokala

B3177PC-US (BCO0007US)

DECLARATION AND ASSIGNMENT

Title of Invention: THE PROCESS FOR PRODUCING HYDROCARBONS FROM CRUDE TALL OIL AND TALL OIL PITCH

As a below named inventor, I hereby declare that:

18 Martin

This declaration is directed to United States application number <u>15/027,737</u> filed on <u>04/07/2016</u> which is the National Stage Filing of International Application No. <u>PCT/FI2014/050786</u> filed on 10/16/<u>2014</u> which claims priority to Finnish application number FI 20136031 filed on 10/17/2013.

The above-identified application was made or authorized to be made by me, and I have reviewed and understand the contents of the application, including the claims.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION");

Whereas, UPM-Kymmene Corporation, a limited company organized and existing under the laws of Finland, having a place of business at Alvar Aallon katu 1, FI-00100 Helsinki, FI, (herein referred to as "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor (herein referred to ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the any and all countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

Each undersigned inventor also hereby grants ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Declaration and Assignment any further identification of the APPLICATION (including, but not limited to, patent Application Number and filing date).

Signature:	Date: /8/~-/6
Legal Name of Inventor: Jari Kotoneva	arry property to
Date: (2)5-6	Date: 1854
Printed Name of Witness: ESA Na Alex 11814	Printed Name of Witness: JANNE KANASTE

B3177PC-US (BCO0007US)

DECLARATION AND ASSIGNMENT

Title of Invention: THE PROCESS FOR PRODUCING HYDROCARBONS FROM CRUDE TALL OIL AND TALL OIL PITCH

As a below named inventor, I hereby declare that:

This declaration is directed to United States application number $\underline{15/027,737}$ filed on $\underline{04/07/2016}$ which is the National Stage Filing of International Application No. $\underline{PCT/FI2014/050786}$ filed on $\underline{10/16/2014}$ which claims priority to Finnish application number $\underline{FI\ 20136031}$ filed on $\underline{10/17/2013}$.

The above-identified application was made or authorized to be made by me, and I have reviewed and understand the contents of the application, including the claims.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION");

Whereas, UPM-Kymmene Corporation, a limited company organized and existing under the laws of Finland, having a place of business at Alvar Aallon katu 1, FI-00100 Helsinki, FI, (herein referred to as "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor (herein referred to ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the any and all countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

Each undersigned inventor also hereby grants ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Declaration and Assignment any further identification of the APPLICATION (including, but not limited to, patent Application Number and filing date).

Signature:	Date: <u>23/05</u> /	¹ 2016
Legal Name of Inventor: Teemu Lindberg		
Date: 23/05/2016	project the	Date: 23/05/2016
	Printed Name of Witness:	ju Helin

B3177PC-US (BCO0007US)

DECLARATION AND ASSIGNMENT

Title of Invention: THE PROCESS FOR PRODUCING HYDROCARBONS FROM CRUDE TALL OIL AND TALL OIL PITCH

As a below named inventor, I hereby declare that:

This declaration is directed to United States application number 15/027,737 filed on 04/07/2016 which is the National Stage Filing of International Application No. PCT/FI2014/050786 filed on 10/16/2014 which claims priority to Finnish application number FI 20136031 filed on 10/17/2013.

The above-identified application was made or authorized to be made by me, and I have reviewed and understand the contents of the application, including the claims.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION");

Whereas, UPM-Kymmene Corporation, a limited company organized and existing under the laws of Finland, having a place of business at Alvar Aalton katu 1, FI-00100 Helsinki, FI, (herein referred to as "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor (herein referred to ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the any and all countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

Each undersigned inventor also hereby grants ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Declaration and Assignment any further identification of the APPLICATION (including, but not limited to, patent Application Number and filing date).

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Signature:	Date: 25 , 4 , 20 / b
Legal Name of Inventor: Timo Äijälä	
Moring thele Date 9. 42016	Bolly Date: John Roll
Printed Name of Witness: Vohanna Pokela	Printed Name of Witness:

PATENT REEL: 038696 FRAME: 0066

RECORDED: 05/24/2016