

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5517659

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VALERY SOKOLOVSKII	02/07/2017
VINCENT J. MURPHY	02/07/2017
THOMAS R. BOUSSIE	02/07/2017
GARY M. DIAMOND	02/07/2017
ERIC L. DIAS	02/07/2017
GUANG ZHU	02/07/2017
JAMES M. LONGMIRE	02/07/2017
STANLEY HERRMANN	02/07/2017
STAFFAN TORSSELL	02/06/2017
MAYYA LAVRENKO	02/07/2017

RECEIVING PARTY DATA

Name:	RENNOVIA INC.
Street Address:	3040 OAKMEAD VILLAGE DRIVE
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95051
Name:	STORA ENSO OYJ
Street Address:	KANAVARANTA 1
City:	HELSINKI
State/Country:	FINLAND
Postal Code:	00160

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16264188

CORRESPONDENCE DATA

Fax Number: (949)760-9502

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: 9497600404

PATENT

Email: Efiling@knobbe.com
Correspondent Name: KNOBBE MARTENS OLSON AND BEAR LLP
Address Line 1: 2040 MAIN STREET
Address Line 2: 14TH FLOOR
Address Line 4: IRVINE, CALIFORNIA 92614

ATTORNEY DOCKET NUMBER: STORA.001A1C1

NAME OF SUBMITTER: DANIEL A KAMKAR

SIGNATURE: /Daniel Kamkar/

DATE SIGNED: 05/10/2019

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 12

source=Assignments - Inventors to Rennovia and Stora#page1.tif
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source=Assignments - Inventors to Rennovia and Stora#page3.tif
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source=Assignments - Inventors to Rennovia and Stora#page12.tif

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: RENN.001A1/100us210

Page 1 of 12

Title: PROCESSES FOR THE PREPARATION OF 2,5-FURANDICARBOXYLIC ACID AND INTERMEDIATES AND DERIVATIVES THEREOF

Inventors: Valery Sokolovskii; Vincent J. Murphy; Thomas R. Boussie; Gary M. Diamond; Eric L. Dias; Guang Zhu; James M. Longmire; Stanley Herrmann; Staffan Torssell; Mayya Lavrenko

Declaration

This Declaration is directed to the application identified above that:

Was filed **January 12, 2017** as U.S. Application No. **15/404,996** and incorporating any amendments made thereto prior to the signature date of this Declaration.

As a named inventor, I declare that:

The above-identified application was made or authorized to be made by me.

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

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

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

Assignment from Inventors

WHEREAS, **above-identified inventors** (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental designs, or discoveries, and hereby assign or are under an obligation to assign to the below identified Assignee the above-titled application (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States (identified above) has been prepared for filing with the United States Patent and Trademark Office (hereinafter the "Application").

AND WHEREAS, **Rennovia Inc. and Stora Enso Oyj**, with their principal places of business at 3040 Oakmead Village Drive, Santa Clara, CA 95051 and Kanavaranta 1, Helsinki, FINLAND 00160, respectively (hereinafter the "ASSIGNEES"), desires to acquire the entire right, title, and interest in and to the Application and the Work.

NOW, THEREFORE, for good and valuable consideration of which receipt is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEES, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all Patent Properties filed or issued upon the Application and the Work; where "Patent Properties" include, but are not limited to:

all provisional applications relating thereto (including but not limited to U.S. Provisional Application No. **62/278,332**, filed **January 13, 2016**);

all nonprovisional applications claiming priority to aforementioned provisional(s) and/or the present Application, including, all divisions, continuations, continuations-in-part, and reissues, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof; and

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all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof (including but not limited to PCT Application No. **PCT/US2017/13197**, filed **January 12, 2017**).

ASSIGNOR hereby acknowledges the ASSIGNEES as the Applicants for all aforementioned Patent Properties, and authorizes and requests the Commissioner of Patents of the United States, and 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 related Letters Patent to the ASSIGNEES, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEES, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEES, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEES, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other Patent Property relating to the Application and the Work or any improvements made thereto, sign/execute all lawful papers, authorize the filing of and execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEES, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

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Page 3 of 12

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Inventors: Valery Sokolovskii; Vincent J. Murphy; Thomas R. Boussie; Gary M. Diamond; Eric L. Dias; Guang Zhu; James M. Longmire; Stanley Herrmann; Staffan Torssell; Mayya Lavrenko

Legal Name of inventor: Valery Sokolovskii

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7 day of February, 2017.

Signature: V. Sokol

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF San Jose

ss.

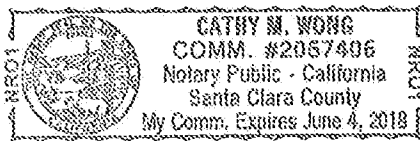
On Feb 7, 2017, before me, Cathy M. Wong, notary public, personally appeared Valery Sokolovskii who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~ are subscribed to the within instrument, and acknowledged to me that ~~he~~ she/they executed the same in ~~his~~ her/their authorized capacity(ies), and that by ~~his~~ her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Cathy M. Wong
Notary Signature

[SEAL]



COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

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Inventors: Valery Sokolovskii; Vincent J. Murphy; Thomas R. Boussie; Gary M. Diamond; Eric L. Dias; Guang Zhu; James M. Longmire; Stanley Herrmann; Staffan Torssell; Mayya Lavrenko

Legal Name of inventor: Vincent J. Murphy

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of February, 2017.

Signature: [Handwritten Signature]

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF Santa Clara } ss.

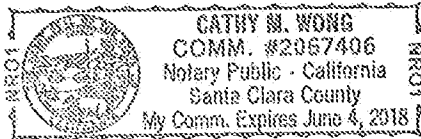
On Feb 7, 2017, before me, Cathy M. Wong, notary public, personally appeared Vincent J. Murphy who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Handwritten Signature]
Notary Signature

[SEAL]



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Legal Name of inventor: Thomas R. Boussie

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of February, 2017.

Signature: *TR Boussie*

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF San Jose

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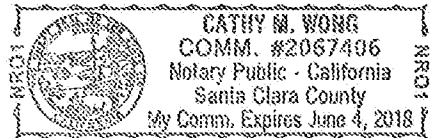
On Feb 7 2017, before me, Cathy M. Wong, notary public, personally appeared Thomas R. Boussie who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Cathy M. Wong
Notary Signature

[SEAL]



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Legal Name of inventor: Gary M. Diamond

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of February, 2017

Signature: _____

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF Santa Clara

ss.

On Feb. 7, 2017, before me, Cathy M. Wong, notary public, personally appeared Gary M. Diamond who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~ are subscribed to the within instrument, and acknowledged to me that ~~he~~ she they executed the same in ~~his~~ her their authorized capacity(ies), and that by ~~his~~ her their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature _____

[SEAL]



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Legal Name of inventor: Eric L. Dias

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7 day of February, 2015.

Signature: [Handwritten Signature]

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF Santa Clara

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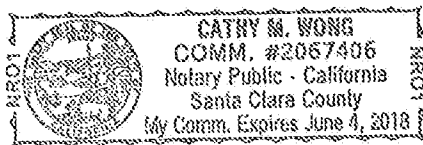
On Feb. 7 2015, before me, Cathy M. Wong, notary public, personally appeared Eric L. Dias who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~ are subscribed to the within instrument, and acknowledged to me that ~~he~~ she/they executed the same in ~~his~~ her/their authorized capacity(ies), and that by ~~his~~ her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Handwritten Signature]
Notary Signature

[SEAL]



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Title: PROCESSES FOR THE PREPARATION OF 2,5-FURANDICARBOXYLIC ACID AND INTERMEDIATES AND DERIVATIVES THEREOF

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Legal Name of inventor: Guang Zhu

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7 day of February, 2017.

Signature: *Guang Zhu*

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF Santa Clara

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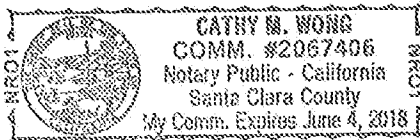
On Feb 7 2017, before me, Cathy M. Wong, notary public, personally appeared Guang Zhu who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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WITNESS my hand and official seal.

Notary Signature *Cathy M. Wong*

[SEAL]



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Legal Name of inventor: James M. Longmire

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7 day of February, 2017.

Signature: *James M. Longmire*

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF San Jose

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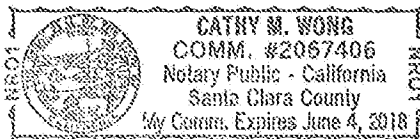
On Feb 7, 2017, before me, Cathy M. Wong, notary public, personally appeared James M. Longmire who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~ are subscribed to the within instrument, and acknowledged to me that ~~he~~ she/they executed the same in ~~his~~ her/their authorized capacity(ies), and that by ~~his~~ her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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WITNESS my hand and official seal.

Cathy M. Wong
Notary Signature

[SEAL]



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Legal Name of inventor: Stanley Herrmann

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 7th day of February, 2017.

Signature: Stanley Herrmann

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA

COUNTY OF Santa Clara

ss.

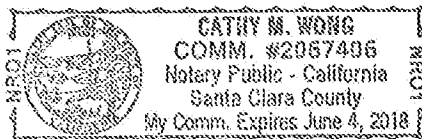
On Feb 7, 2017, before me, Cathy M. Wong, notary public, personally appeared Stanley Herrmann who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~ are subscribed to the within instrument, and acknowledged to me that ~~he~~ she/they executed the same in ~~his~~ her/their authorized capacity(ies), and that by ~~his~~ her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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WITNESS my hand and official seal.

Cathy M. Wong
Notary Signature

[SEAL]



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Legal Name of inventor: Staffan Torssell

IN TESTIMONY WHEREOF, I hereunto set my hand and signature this SIXTH day of FEBRUARY, 20 17.

Signature: _____

Staffan Torssell

WITNESS:

Witness Signature

Stephan Walter

Witness Name

Stephan WALTER

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

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Legal Name of inventor: Mayya Lavrenko

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 07 day of February, 2017.

Signature: *[Handwritten Signature]*

Signature before a Notary is desirable but not required.

A NOTARY PUBLIC OR OTHER OFFICER COMPLETING THIS CERTIFICATE VERIFIES ONLY THE IDENTITY OF THE INDIVIDUAL WHO SIGNED THE DOCUMENT TO WHICH THIS CERTIFICATE IS ATTACHED, AND NOT THE TRUTHFULNESS, ACCURACY, OR VALIDITY OF THAT DOCUMENT.

STATE OF CALIFORNIA }
COUNTY OF Santa Clara } ss.

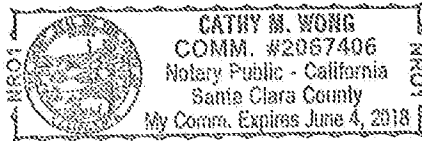
On Feb 7, 2017, before me, Cathy M. Wong, notary public, personally appeared Mayya Lavrenko who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[Handwritten Signature]
Notary Signature

[SEAL]



25146176