# 504518904 08/24/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4565609

SUBMISSION TYPE:			NEW ASSIGNMENT	
NATURE OF CONVEYANCE:			ASSIGNMENT	
CONVEYING PARTY	DATA			
			Name	Execution Date
ROBERT JANSEN				11/24/2014
PHILIP TRAVISANO				11/24/2014
NETA MATIS				11/12/2014
JAMES ALAN LAWSC	DN			11/23/2014
NOA LAPIDOT				11/16/2014
AHARON M. EYAL				02/02/2015
TIMOTHY ALLEN BAU	JER			12/09/2014
ZIV VLADIMIR BELM	AN			11/20/2014
BASSEM HALLAC				11/16/2014
MICHAEL ZVIELY				11/13/2014
City: State/Country: Postal Code: PROPERTY NUMBER		SIANA		1
Property Typ			Number	-
Application Number:		15624	4952	
CORRESPONDENCE	DATA			
Fax Number:		(650) <sup>,</sup>	493-6811	
			e-mail address first; if that is uns nat is unsuccessful, it will be ser	
Phone:			61-5211	
Email:			@wsgr.com	
•			STINE RICKS	
•	Address Line 1: 650			
Address Line 1:				
•			AGE MILL ROAD ALTO, CALIFORNIA 94304-1050	)

NAME OF SUBMITTER:	CHRISTINE RICKS		
SIGNATURE:	/Christine Ricks/		
DATE SIGNED:	08/24/2017		
Total Attachments: 14			
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	PATENT ASSIGNMENT		Docket Number 39317-744.831
WHEREAS, the undersigned:			
<ol> <li>JANSEN, Robert</li></ol>	2. GREGOIRE, Claire	3. TRAVISANO, Philip	4. MADSEN, Lee
Redwood City, CA (U.S.)	Verrieres le Buisson, France	Danville, VA (U.S.)	Danville, VA (U.S.)
5. MATIS, Neta	6. HAR-TAL, Yael	7. ELIAHU, Shay	8. LAWSON, James Alan
Hod Hasharon, Israel	Herzliya, Israel	Ramat Efal, Israel	Ellsworth, Maine (U.S.)
9. LAPIDOT, Noa	10. BURKE, Luke	11. EYAL, Aharon M.	12. BAUER, Timothy Allen
Mevaseret Zion, Israel	Rochelle, Illinois (U.S.)	Jerusalem, Israel	Belleville, Illinois (U.S.)
13. SADE, Hagit	14. MCWILLIAMS, Paul	15. BELMAN, Ziv-Vladimir	16. HALLAC, Bassem
Ramat Gan, Israel	Racine, Wisconsin (U.S.)	Kiryat-yam, Israel	Jerusalem, Israel
17. ZVIELY, Michael	<ol> <li>GERSHINSKY, Yelena</li></ol>	19. CARDEN, Adam	(U.S.)
Haifa, Israel	Petach Tikva, Israel	Henderson, North Carolina	

#### METHODS FOR TREATING LIGNOCELLULOSIC MATERIALS

for which Application No. <u>14/398,444</u> was submitted on <u>October 31, 2014</u> to the USPTO as a National Phase entry of an international application filed on <u>May 3, 2013</u> (hereinafter "Application(s)").

WHEREAS, <u>Virdia, Inc.</u>, a corporation of the state of <u>Delaware</u>, having a place of business at <u>303, Twin Dolphin Drive, Suite 600, Redwood</u> <u>City, CA 94065</u>, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s) and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter "Patent(s)") thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions and said Applications, including the right to claim priority to said Inventions and said Applications; (b) in and to all rights to all United States and corresponding non-United States patent applications and Patent(s), including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise; (c) in and to any and all applications filed and any and all Patent(s) granted on said Inventions in the United States, in any foreign country, or under any international convention, agreement, protocol, or treaty, including each and every application filed and any and all Patent(s) granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); and (d) in and to each and every reissue, reexamination, or extensions of any of said Patent(s).

2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of pertinent, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any applications covering said Inventions; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions; and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.

4. Said Inventor(s) hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

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6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.

IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below:

Date:	Robert Jansen	Date:	Claire Gregoire
Date:	Philip Travisano	Date:	Lee Madsen

Page 1 of 1

	PATENT ASSIGNMENT		Docket Number 39317-744.831
Date:	Neta Matis	Date:	Yael Har-Tal
Date:	Shay Eliahu	Date:	James Alan Lawson
Date:	Noa Lapidot	Date:	Luke Burke
Date: 02-02-2011	A. m. C. Aharon M. Eyal	Date:	Timothy Allen Bauer
Date:	Hagit Sade	Date:	Paul McWilliams
Date:	Ziv-Vladimir Belman	Date:	Bassem Hallac
Date:	Michael Zviely	Date:	Yelena Gershinsky
Date:	Adam Carden		

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Date.	 Philip Travisano	Date:	Lee Madsen

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Page 1 of 1

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Date: 13/11/14	Neta Matis	Date:	Yael Har-Tal
Date 14/11/15	Shay Eliabu	Date:	James Alan Lawson
Date: 16 NOV14	Noa Lapidot	Date:	Luke Burke
Date:	Aharon M. Eyal	Date:	Timothy Allen Bauer
Date	Hagit Sade	Date:	Paul McWilliams
Date:	Ziv-Vladimir Belman	Date: 16.11 14	PassenHalla
Date 13 11 2011	Michael Zviely	Date:	Yelenn Gershinsky
Date	Adam Carden		

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Page 2 of 1

## PATENT REEL: 043391 FRAME: 0784

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Haifa, Israel	Petach Tikva, Israel	Henderson, North Carolin	

#### METHODS FOR TREATING LIGNOCELLULOSIC MATERIALS

for which Application No. <u>14/398,444</u> was submitted on <u>October 31, 2014</u> to the USPTO as a National Phase entry of an international application filed on <u>May 3, 2013</u> (hereinafter "Application(s)").

WHEREAS, <u>Virdia, Inc.</u>, a corporation of the state of <u>Delaware</u>, having a place of business at <u>303</u>, <u>Twin Dolphin Drive</u>, <u>Suite 600</u>, <u>Redwood</u> <u>City, CA 94065</u>, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said Application(s) and the inventions disclosed therein, and in and to all embodiments of the inventions, heretofore conceived, made or discovered, whether jointly or severally, by said Inventor(s) (hereinafter collectively referred to as "Inventions"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter "Patent(s)") thereon granted in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said Inventions and said Applications, including the right to claim priority to said Inventions and said Applications; (b) in and to all rights to all United States and corresponding non-United States patent applications and Patent(s), including those filed under the Paris Convention for the Protection of Industrial Property, The Patent Cooperation Treaty or otherwise; (c) in and to any and all applications filed and any and all Patent(s) granted on said Inventions in the United States, in any foreign country, or under any international convention, agreement, protocol, or treaty, including each and every application filed and any and all Patent(s) granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said Application(s); and (d) in and to each and every reissue, reexamination, or extensions of any of said Patent(s).

2. Said Inventor(s) hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any applications covering said Inventions; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Inventions; (d) for filing and prosecuting applications for reissuance of any said Patent(s); (e) for interference or other priority proceedings involving said Inventions; and (f) for legal proceedings involving said Inventions and any applications therefor and any Patent(s) granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.

4. Said Inventor(s) hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. Said Inventor(s) hereby request that any Patent(s) issuing in the United States, foreign countries, or under any international convention, agreement, protocol, or treaty, be issued in the name of the Assignee, or its successors and assigns, for the sole use of said Assignee, its successors, legal representatives and assigns.

6. This instrument will be interpreted and construed in accordance with the laws of the State of California, without regard to conflict of law principles. If any provision of this instrument is found to be illegal or unenforceable, the other provisions shall remain effective and enforceable to the greatest extent permitted by law. This instrument may be executed in counterparts, each of which is deemed an original, but all of which together constitute one and the same agreement.

IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below:

Date:	Robert Jansen	Date:	Claire Gregoire
Date:	Philip Travisano	Date:	Lee Madsen

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Page 1 of 1

	PATENT ASSIGNMENT		Docket Number 39317-744.831
Date:	Neta Matis	Date:	Yael Har-Tal
Date:	Shay Eliahu	Date:	James Alan Lawson
Date:	Noa Lapidot	Date:	Luke Burke
Date:	Abaron M. Eyal	Date: 12/9/14	Timothe all have
Date:	Hagit Sade	Date:	Paul McWilliams
Date:	Ziv-Vladimir Belman	Date:	Bassem Hallac
Date:	Michael Zviely	Date:	Yelena Gershinsky
Date:	Adam Carden		

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	PATENT ASSIGNMENT	1	Docket Number 39317-744.831
WHEREAS, the undersigned:			
<ol> <li>JANSEN, Robert</li></ol>	2. GREGOIRE, Claire	3. TRAVISANO, Philip	4. MADSEN, Lee
Redwood City, CA (U.S.)	Verrieres le Buisson, France	Danville, VA (U.S.)	Danville, VA (U.S.)
5. MATIS, Neta	6. HAR-TAL, Yael	7. ELIAHU, Shay	8. LAWSON, James Alan
Hod Hasharon, Israel	Herzliya, Israel	Ramat Efal, Israel	Ellsworth, Maine (U.S.)
<ol> <li>I.APIDOT, Noa</li></ol>	10. BURKE, Luke	11. EYAL, Aharon M.	12. BAUER, Timothy Allen
Meyaseret Zion, Israel	Rochelle, Illinois (U.S.)	Jerusalem, Israel	Belleville, Illinois (U.S.)
13. SADE, Hagit	14. MCWILLIAMS, Paul	15. BELMAN, Ziv-Vladimir	16. HALLAC, Bassem
Ramat Gan, Israel	Racine, Wisconsin (U.S.)	Kiryat-yam, Israel	Jerusalem, Israel
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Date:		Date: 11-2.3-2	
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Date:	Aharon M. Eyal	Date:	Timothy Allen Bauer
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Date:	Ziv-Vladimir Belman	Date:	Bassem Hallac
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Date:	Adam Carden	<b>n</b> -	

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## PATENT REEL: 043391 FRAME: 0794

## RECORDED: 08/24/2017