

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

Assignment ID: PATI84407

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Robert Jansen	11/24/2014
Philip Travisano	11/24/2014
Neta Matis	11/12/2014
James Alan Lawson	11/23/2014
Noa Lapidot	11/16/2014
Aharon M. Eyal	02/02/2015
Timothy Allen Bauer	12/09/2014
Ziv-Vladimir Belman	11/20/2014
Bassem Hallac	11/16/2014
Michael Zviely	11/13/2014
<b>RECEIVING PARTY DATA</b>	
<b>Company Name:</b>	Virdia, Inc.
<b>Street Address:</b>	284 South Main Street, Suite 600
<b>City:</b>	alpharetta
<b>State/Country:</b>	GEORGIA
<b>Postal Code:</b>	30009
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17339883
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	2068394801
<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>Phone:</b>	2068394800
<b>Email:</b>	christina.campbell@us.dlapiper.com,seattlepatentdocket@us.dlapiper.com
<b>Correspondent Name:</b>	DLA Piper LLP
<b>Address Line 1:</b>	701 Fifth Avenue, Suite 6900
<b>Address Line 4:</b>	Seattle, WASHINGTON 98104-7029
<b>ATTORNEY DOCKET NUMBER:</b>	438452-744055

<b>NAME OF SUBMITTER:</b>	Christina Campbell
<b>SIGNATURE:</b>	Christina Campbell
<b>DATE SIGNED:</b>	03/11/2024
<b>Total Attachments: 14</b> source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page1.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page2.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page3.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page4.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page5.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page6.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page7.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page8.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page9.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page10.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page11.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page12.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page13.tif source=438452-744055 (744USC5) Executed Assignment (Inventors to Virdia, Inc.)#page14.tif	

PATENT ASSIGNMENT			Docket Number 39317-744.831
WHEREAS, the undersigned:			
1. JANSEN, Robert Redwood City, CA (U.S.)	2. GREGOIRE, Claire Verrieres le Buisson, France	3. TRAVISANO, Philip Danville, VA (U.S.)	4. MADSEN, Lee Danville, VA (U.S.)
5. MATIS, Neta Hod Hasharon, Israel	6. HAR-TAL, Yael Herzliya, Israel	7. ELIAHU, Shay Ramat Efal, Israel	8. LAWSON, James Alan Ellsworth, Maine (U.S.)
9. LAPIDOT, Noa Mevaseret Zion, Israel	10. BURKE, Luke Rochelle, Illinois (U.S.)	11. EYAL, Aharon M. Jerusalem, Israel	12. BAUER, Timothy Allen Belleville, Illinois (U.S.)
13. SADE, Hagit Ramat Gan, Israel	14. MCWILLIAMS, Paul Racine, Wisconsin (U.S.)	15. BELMAN, Ziv-Vladimir Kiryat-yam, Israel	16. HALLAC, Bassem Jerusalem, Israel
17. ZVIELY, Michael Haifa, Israel	18. GERSHINSKY, Yelena Petach Tikva, Israel	19. CARDEN, Adam Henderson, North Carolina (U.S.)	
<p>(hereinafter "Inventor(s)), have invented certain new and useful improvements in</p> <p style="text-align: center;"><b>METHODS FOR TREATING LIGNOCELLULOSIC MATERIALS</b></p> <p>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)").</p> <p>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 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.</p> <p>NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:</p> <p>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).</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below:</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;"> <p>Date: _____ Robert Jansen</p> <p>Date: _____ Philip Travisano</p> </div> <div style="width: 45%;"> <p>Date: _____ Claire Gregoire</p> <p>Date: _____ Lee Madsen</p> </div> </div>			

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: <u>02-02-2011</u>	<u>A. M. Eyal</u> 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		

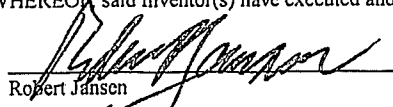
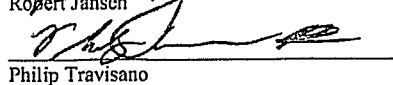
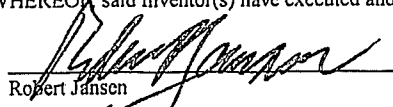
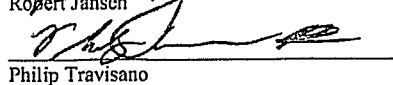
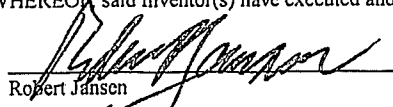
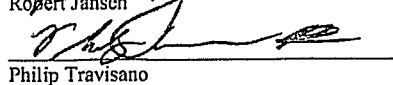
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9. LAPIDOT, Noa Mevaseret Zion, Israel	10. BURKE, Luke Rochelle, Illinois (U.S.)	11. EYAL, Aharon M. Jerusalem, Israel	12. BAUER, Timothy Allen Belleville, Illinois (U.S.)
13. SADE, Hagit Ramat Gan, Israel	14. MCWILLIAMS, Paul Racine, Wisconsin (U.S.)	15. BELMAN, Ziv-Vladimir Kiryat-yam, Israel	16. HALIAC, Bassem Jerusalem, Israel
17. ZVIELY, Michael Haifa, Israel	18. GERSHINSKY, Yelena Petach Tikva, Israel	19. CARDEN, Adam Henderson, North Carolina (U.S.)	
(hereinafter "Inventor(s)"), have invented certain new and useful improvements in			
<b>METHODS FOR TREATING LIGNOCELLULOSIC MATERIALS</b>			
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 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.			
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Date: _____	Philip Travisano	Date: _____	Lee Madsen

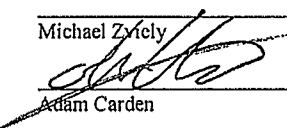
PATENT ASSIGNMENT		Docket Number 39317-744.831	
Date: <u>12/11/14</u>	<u>Neta Matis</u>	Date: _____	<u>Yael Har-Tal</u>
Date: <u>14/11/14</u>	<u>Shay Eliahu</u>	Date: _____	<u>James Alan Lawson</u>
Date: <u>6 Nov 14</u>	<u>Noa Lapidot</u>	Date: _____	<u>Luke Burke</u>
Date: _____	<u>Aharon M. Eyal</u>	Date: _____	<u>Timothy Allen Bauer</u>
Date: _____	<u>Hagit Sade</u>	Date: _____	<u>Paul McWilliams</u>
Date: _____	<u>Ziv-Vladimir Belman</u>	Date: <u>16.11.14</u>	<u>Rassem Hallae</u>
Date: <u>13/11/2014</u>	<u>Michael Zviely</u>	Date: _____	<u>Yelena Gershinsky</u>
Date: _____	<u>Adam Carden</u>		

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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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> </ol> <p>IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below:</p> <table style="width: 100%; margin-top: 20px;"> <tr> <td style="width: 50%; vertical-align: top;"> Date: _____  <div style="text-align: center;">Robert Jansen</div> </td> <td style="width: 50%; vertical-align: top;"> Date: _____  <div style="text-align: center;">Claire Gregoire</div> </td> </tr> <tr> <td style="vertical-align: top;"> Date: _____  <div style="text-align: center;">Philip Travisano</div> </td> <td style="vertical-align: top;"> Date: _____  <div style="text-align: center;">Lee Madsen</div> </td> </tr> </table>				Date: _____ <div style="text-align: center;">Robert Jansen</div>	Date: _____ <div style="text-align: center;">Claire Gregoire</div>	Date: _____ <div style="text-align: center;">Philip Travisano</div>	Date: _____ <div style="text-align: center;">Lee Madsen</div>
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Date: _____	Neta Matis	Date: _____	Yael Har-Tal
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Date: _____	Hagit Sade	Date: 11/18/14	Paul McWilliams
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Date: _____	Michael Zviely	Date: _____	Yelena Gershinsky
Date: _____	Adam Carden		



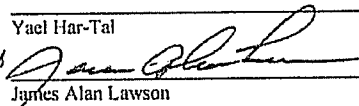
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PATENT ASSIGNMENT		Docket Number 39317-744.831	
Date: _____	Neta Matis	Date: _____	Yael Har-Tal
Date: _____	Shay Eliahu	Date: _____	James Alan Lawson
Date: _____	Noa Lapidot	Date: _____	Luke Burke
Date: _____	Aharon M. Eyal	Date: _____	Timothy Allen Bauer
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Date: _____	Ziv-Vladimir Belman	Date: _____	Bassem Hallac
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Date: <u>11/29/2014</u>	 Adam Carden		

PATENT ASSIGNMENT			Docket Number 39317-744.831								
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PATENT ASSIGNMENT		Docket Number 39317-744.831	
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Date: _____	Shay Eliahu	Date: _____	James Alan Lawson
Date: _____	Noa Lapidot	Date: _____	Luke Burke
Date: _____	Aharon M. Eyal	Date: <u>12/2/14</u>	<i>Timothy Allen Bauer</i> Timothy Allen Bauer
Date: _____	Hagit Sade	Date: _____	Paul McWilliams
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PATENT ASSIGNMENT		Docket Number 39317-744.831	
Date: _____	Neta Matis	Date: _____	Yael Har-Tal
Date: _____	Shay Eliahu	Date: <u>11-23-2014</u>	 James Alan Lawson
Date: _____	Noa Lapidot	Date: _____	Luke Burke
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## PATENT ASSIGNMENT

Docket Number 39317-744.831

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(hereinafter "Inventor(s)"), have invented certain new and useful improvements in

## METHODS FOR TREATING LIGNOCELLULOSIC MATERIALS

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

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