

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7490642

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | CORRECTIVE ASSIGNMENT                                                                                                                                                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | Corrective Assignment to correct the ASSIGNEE ADDRESS previously recorded on Reel 047552 Frame 0665. Assignor(s) hereby confirms the ASSIGNMENT OF THE ASSIGNOR'S INTEREST. |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                                                                                                                                             |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>                                                                                                                                                       |
| RHODRI WILLIAMS                                                                                                                                                                                 | 10/30/2018                                                                                                                                                                  |
| ROBERT ENGLISH                                                                                                                                                                                  | 10/25/2018                                                                                                                                                                  |
| JOHN HEATON                                                                                                                                                                                     | 09/17/2018                                                                                                                                                                  |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                                                                                                                                                             |
| <b>Name:</b>                                                                                                                                                                                    | SAPPI NETHERLANDS SERVICES B.V.                                                                                                                                             |
| <b>Street Address:</b>                                                                                                                                                                          | BIESENWEG 16                                                                                                                                                                |
| <b>City:</b>                                                                                                                                                                                    | MAASTRICHT                                                                                                                                                                  |
| <b>State/Country:</b>                                                                                                                                                                           | NETHERLANDS                                                                                                                                                                 |
| <b>Postal Code:</b>                                                                                                                                                                             | 6211 AA                                                                                                                                                                     |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                                                                                                                                                             |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                                                                                                                                                               |
| <b>Application Number:</b>                                                                                                                                                                      | 16303165                                                                                                                                                                    |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                                                                                                                                                             |
| <b>Fax Number:</b>                                                                                                                                                                              | (202)293-7860                                                                                                                                                               |
| <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>                                                                                                                                                                                   | 2022937060                                                                                                                                                                  |
| <b>Email:</b>                                                                                                                                                                                   | sughrue@sughrue.com, mwhite@sughrue.com                                                                                                                                     |
| <b>Correspondent Name:</b>                                                                                                                                                                      | SUGHRUE MION, PLLC                                                                                                                                                          |
| <b>Address Line 1:</b>                                                                                                                                                                          | 2000 PENNSYLVANIA AVENUE, N.W.                                                                                                                                              |
| <b>Address Line 2:</b>                                                                                                                                                                          | SUITE 9000                                                                                                                                                                  |
| <b>Address Line 4:</b>                                                                                                                                                                          | WASHINGTON, D.C. 20006                                                                                                                                                      |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | Q242961                                                                                                                                                                     |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | MICHELLE L WHITE FOR ALAN J KASPER                                                                                                                                          |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Michelle L White/                                                                                                                                                          |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 08/17/2022                                                                                                                                                                  |
| <b>Total Attachments: 10</b>                                                                                                                                                                    |                                                                                                                                                                             |
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Electronic Version v1.1  
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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | NEW ASSIGNMENT                  |                                 |                            |              |                |            |                       |            |                     |         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|----------------------------|--------------|----------------|------------|-----------------------|------------|---------------------|---------|--|
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ASSIGNMENT                      |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |                                 |                            |              |                |            |                       |            |                     |         |  |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>RHODRI WILLIAMS</td><td>10/30/2018</td></tr><tr><td>ROBERT ENGLISH</td><td>10/25/2018</td></tr><tr><td>JOHN HEATON</td><td>09/17/2018</td></tr></tbody></table>                                                                                                                                                                                                                                                                             | Name                            | Execution Date                  | RHODRI WILLIAMS            | 10/30/2018   | ROBERT ENGLISH | 10/25/2018 | JOHN HEATON           | 09/17/2018 |                     |         |  |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Execution Date                  |                                 |                            |              |                |            |                       |            |                     |         |  |
| RHODRI WILLIAMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10/30/2018                      |                                 |                            |              |                |            |                       |            |                     |         |  |
| ROBERT ENGLISH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10/25/2018                      |                                 |                            |              |                |            |                       |            |                     |         |  |
| JOHN HEATON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 09/17/2018                      |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |                                 |                            |              |                |            |                       |            |                     |         |  |
| <table border="1"><tr><td><b>Name:</b></td><td>SAPPI NETHERLANDS SERVICES B.V.</td></tr><tr><td><b>Street Address:</b></td><td>BIESENWEG 16</td></tr><tr><td><b>City:</b></td><td>MAASTRICHT</td></tr><tr><td><b>State/Country:</b></td><td>GERMANY</td></tr><tr><td><b>Postal Code:</b></td><td>6211 AA</td></tr></table>                                                                                                                                                                                                               | <b>Name:</b>                    | SAPPI NETHERLANDS SERVICES B.V. | <b>Street Address:</b>     | BIESENWEG 16 | <b>City:</b>   | MAASTRICHT | <b>State/Country:</b> | GERMANY    | <b>Postal Code:</b> | 6211 AA |  |
| <b>Name:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SAPPI NETHERLANDS SERVICES B.V. |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>Street Address:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BIESENWEG 16                    |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>City:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | MAASTRICHT                      |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>State/Country:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | GERMANY                         |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>Postal Code:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 6211 AA                         |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                 |                                 |                            |              |                |            |                       |            |                     |         |  |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td><b>Application Number:</b></td><td>16303165</td></tr></tbody></table>                                                                                                                                                                                                                                                                                                                                                                      | Property Type                   | Number                          | <b>Application Number:</b> | 16303165     |                |            |                       |            |                     |         |  |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Number                          |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>Application Number:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 16303165                        |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                                 |                            |              |                |            |                       |            |                     |         |  |
| <p><b>Fax Number:</b> (202)293-7068<br/><b>Phone:</b> 202-293-7060<br/><b>Email:</b> sughrue@sughrue.com, bgalvez@sughrue.com<br/><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><br/><b>Correspondent Name:</b> SUGHRUE MION, PLLC<br/><b>Address Line 1:</b> 2100 PENNSYLVANIA AVENUE, N.W.<br/><b>Address Line 2:</b> SUITE 800<br/><b>Address Line 4:</b> WASHINGTON, D.C. 20037</p> |                                 |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Q242961                         |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BYRON F. GALVEZ                 |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>Signature:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | /Byron Galvez/                  |                                 |                            |              |                |            |                       |            |                     |         |  |
| <b>Date:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 11/20/2018                      |                                 |                            |              |                |            |                       |            |                     |         |  |
| This document serves as an Oath/Declaration (37 CFR 1.63).                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                 |                                 |                            |              |                |            |                       |            |                     |         |  |

**Total Attachments: 6**

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**RECEIPT INFORMATION**

**EPAS ID:** PAT5245917

**Receipt Date:** 11/20/2018

**ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)**

Whereas, We, the undersigned inventors hereinafter called assignors, have invented certain improvements described in the application identified below; and

Whereas, SAPPI Netherlands Services B.V. of Biesenweg 16, AA Maastricht, 6211, Netherlands (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 USC 119 and the right to sue for past damages, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

(Legalization not required for recording but is prima facie evidence of execution under 35 USC 261)

As the below named inventor, I hereby declare that:

This assignment with declaration is ☐ The attached application, or  
directed to:

☒ United States Application or PCT International Application Number PCT/EP 2017/062478  
filed on May 23, 2017.

The application is entitled:

**PRODUCTION OF CHEMICALLY DERIVATIZED NANOCELLULOSE**

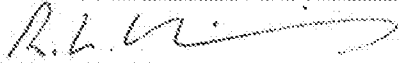
The above identified application was made or was authorized to be made by me.

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

I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

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

|                                                                                       |                                                                                                   |
|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>NAME OF SOLE OR FIRST INVENTOR:</b>                                                |                                                                                                   |
| Given Name<br>(first and middle [if any])                                             | Rhodri                                                                                            |
| Family Name or Surname                                                                | WILLIAMS                                                                                          |
| Inventor's signature                                                                  |  Date 30/10/2018 |
| Residence: Edinburgh, United Kingdom                                                  |                                                                                                   |
| Mailing Address: 2/5 North Werber Road, Fettes, Edinburgh, EH4 1TA, United Kingdom    |                                                                                                   |
| <b>NAME OF SECOND INVENTOR:</b>                                                       |                                                                                                   |
| Given Name<br>(first and middle [if any])                                             | Robert                                                                                            |
| Family Name or Surname                                                                | ENGLISH                                                                                           |
| Inventor's signature                                                                  | Date                                                                                              |
| Residence: Eilean Siar, United Kingdom                                                |                                                                                                   |
| Mailing Address: 8a Borrisdale, Isle of Harris, Eilean Siar, HS5 3LJE, United Kingdom |                                                                                                   |
| <b>NAME OF THIRD INVENTOR:</b>                                                        |                                                                                                   |
| Given Name<br>(first and middle [if any])                                             | John                                                                                              |
| Family Name or Surname                                                                | HEATON                                                                                            |
| Inventor's signature                                                                  | Date                                                                                              |
| Residence: Maastricht, Netherlands                                                    |                                                                                                   |
| Mailing Address: Bogaardenstraat 57, Maastricht, 6211 SN, Netherlands                 |                                                                                                   |

ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

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Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 USC 119 and the right to sue for past damages, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

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|                                                                                      |                                 |
|--------------------------------------------------------------------------------------|---------------------------------|
| <b>NAME OF SOLE OR FIRST INVENTOR:</b>                                               |                                 |
| Given Name<br>(first and middle [if any]) Rhodri                                     | Family Name or Surname WILLIAMS |
| Inventor's signature                                                                 | Date                            |
| Residence: Edinburgh, United Kingdom                                                 |                                 |
| Mailing Address: 2/5 North Werber Road, Fettes, Edinburgh, EH4 1TA, United Kingdom   |                                 |
| <b>NAME OF SECOND INVENTOR:</b>                                                      |                                 |
| Given Name<br>(first and middle [if any]) Robert                                     | Family Name or Surname ENGLISH  |
| Inventor's signature <i>Robert English</i>                                           | Date 25/10/18                   |
| Residence: Eilean Siar, United Kingdom                                               |                                 |
| Mailing Address: 8a Borrisdale, Isle of Harris, Eilean Siar, HS5 3UE, United Kingdom |                                 |
| <b>NAME OF THIRD INVENTOR:</b>                                                       |                                 |
| Given Name<br>(first and middle [if any]) John                                       | Family Name or Surname HEATON   |
| Inventor's signature                                                                 | Date                            |
| Residence: Maastricht, Netherlands                                                   |                                 |
| Mailing Address: Bogaardenstraat 57, Maastricht, 6211 SN, Netherlands                |                                 |



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|                                                                                      |                                 |
|--------------------------------------------------------------------------------------|---------------------------------|
| <b>NAME OF SOLE OR FIRST INVENTOR:</b>                                               |                                 |
| Given Name<br>(first and middle [if any]) Rhodri                                     | Family Name or Surname WILLIAMS |
| Inventor's signature                                                                 | Date                            |
| Residence: Edinburgh, United Kingdom                                                 |                                 |
| Mailing Address: 2/5 North Werber Road, Fettes, Edinburgh, EH4 1TA, United Kingdom   |                                 |
| <b>NAME OF SECOND INVENTOR:</b>                                                      |                                 |
| Given Name<br>(first and middle [if any]) Robert                                     | Family Name or Surname ENGLISH  |
| Inventor's signature                                                                 | Date                            |
| Residence: Eilean Siar, United Kingdom                                               |                                 |
| Mailing Address: 8a Borrisdale, Isle of Harris, Eilean Siar, HS5 3UE, United Kingdom |                                 |
| <b>NAME OF THIRD INVENTOR:</b>                                                       |                                 |
| Given Name<br>(first and middle [if any]) John                                       | Family Name or Surname HEATON   |
| Inventor's signature <i>John Heaton</i>                                              | Date 17/9/18                    |
| Residence: Maastricht, Netherlands                                                   |                                 |
| Mailing Address: Bogaardenstraat 57, Maastricht, 6211 SN, Netherlands                |                                 |