

## PATENT ASSIGNMENT

Electronic Version v1.1  
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| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | NEW ASSIGNMENT                   |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------|--------------------|---------------------|----------------|------------------------------|------------|-----------------------|-------------|--------------------|------------|------------------------------|------------|------------------|------------|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ASSIGNMENT                       |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| CONVEYING PARTY DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Koen van PUTTEN</td> <td>08/24/2012</td> </tr> <tr> <td>Johannes Maria Mathias WILMS</td> <td>08/31/2012</td> </tr> <tr> <td>Ernst Jan van KLINKEN</td> <td>08/16/2012</td> </tr> <tr> <td>Harm van der WERFF</td> <td>08/07/2012</td> </tr> <tr> <td>Leonard Josef Arnold NIELABA</td> <td>08/21/2012</td> </tr> <tr> <td>Roelof MARISSSEN</td> <td>07/31/2012</td> </tr> </tbody> </table> |                                  | Name          | Execution Date     | Koen van PUTTEN     | 08/24/2012     | Johannes Maria Mathias WILMS | 08/31/2012 | Ernst Jan van KLINKEN | 08/16/2012  | Harm van der WERFF | 08/07/2012 | Leonard Josef Arnold NIELABA | 08/21/2012 | Roelof MARISSSEN | 07/31/2012 |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Execution Date                   |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Koen van PUTTEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 08/24/2012                       |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Johannes Maria Mathias WILMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 08/31/2012                       |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Ernst Jan van KLINKEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 08/16/2012                       |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Harm van der WERFF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 08/07/2012                       |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Leonard Josef Arnold NIELABA                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 08/21/2012                       |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Roelof MARISSSEN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 07/31/2012                       |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| RECEIVING PARTY DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| <table border="1"> <tr> <td>Name:</td> <td>DSM IP ASSETS B.V.</td> </tr> <tr> <td>Street Address:</td> <td>Het Overloon 1</td> </tr> <tr> <td>City:</td> <td>Heerlen</td> </tr> <tr> <td>State/Country:</td> <td>NETHERLANDS</td> </tr> <tr> <td>Postal Code:</td> <td>6411 TE</td> </tr> </table>                                                                                                                                                                                                 |                                  | Name:         | DSM IP ASSETS B.V. | Street Address:     | Het Overloon 1 | City:                        | Heerlen    | State/Country:        | NETHERLANDS | Postal Code:       | 6411 TE    |                              |            |                  |            |
| Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DSM IP ASSETS B.V.               |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Het Overloon 1                   |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| City:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Heerlen                          |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| State/Country:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | NETHERLANDS                      |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Postal Code:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6411 TE                          |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| PROPERTY NUMBERS Total: 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13515936</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                          |                                  | Property Type | Number             | Application Number: | 13515936       |                              |            |                       |             |                    |            |                              |            |                  |            |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Number                           |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13515936                         |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| CORRESPONDENCE DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Fax Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7038164100                       |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Phone:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 703-816-4000                     |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Email:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | dlb@nixonvan.com                 |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>                                                                                                                                                                                                                                                                                                                                                                              |                                  |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Correspondent Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | BRYAN H. DAVIDSON                |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Address Line 1:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | NIXON & VANDERHYE P.C.           |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Address Line 2:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 901 NORTH GLEBE ROAD, 11TH FLOOR |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| Address Line 4:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ARLINGTON, VIRGINIA 22203        |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | BHD-4662-2225                    |               |                    |                     |                |                              |            |                       |             |                    |            |                              |            |                  |            |

OP \$40.00 13515936

NAME OF SUBMITTER:

Bryan H. Davidson

**Total Attachments: 12**

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# ASSIGNMENT OF PATENT APPLICATION

(Inventors) Koen van PUTTEN  
 Johannes Maria Mathias WILMS  
 Ernst Jan van KLINKEN  
 Harm van der WERFF  
 Leonard Josef Arnold NIELABA  
 Roelof MARISSEN

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(Other Countries) PROCESS FOR THE MANUFACTURE OF A MULTILAYER MATERIAL SHEET,  
 (Title) MULTILAYER MATERIAL SHEET AND USE HEREOF (Case No. 4662-2225)  
 for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed on or has already filed in  
 U.S. appln. Serial No. 13/515,936, filed on June 14, 2012.  
 The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

|      |                   |                       |                                                                                                       |
|------|-------------------|-----------------------|-------------------------------------------------------------------------------------------------------|
| Date | <u>24-08-2012</u> | Signature of inventor | <br>Koen van PUTTEN |
| Date | _____             | Signature of inventor | Johannes Maria Mathias WILMS                                                                          |
| Date | _____             | Signature of inventor | Ernst Jan van KLINKEN                                                                                 |
| Date | _____             | Signature of inventor | Harm van der WERFF                                                                                    |
| Date | _____             | Signature of inventor | Leonard Josef Arnold NIELABA                                                                          |
| Date | _____             | Signature of inventor | Roelof MARISSSEN                                                                                      |

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| Date _____             | Signature of inventor _____ | Koen van PUTTEN              |
| Date <u>31-09-2012</u> | Signature of inventor _____ | Johannes Maria Mathias WILMS |
| Date _____             | Signature of inventor _____ | Ernst Jan van KLINKEN        |
| Date _____             | Signature of inventor _____ | Harm van der WERFF           |
| Date _____             | Signature of inventor _____ | Leonard Josef Arnold NIELABA |
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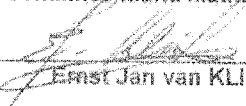
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|                       |                             |                                                                                                             |
|-----------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------|
| Date _____            | Signature of inventor _____ | Koen van PUTTEN                                                                                             |
| Date _____            | Signature of inventor _____ | Johannes Maria Mathias WILMS                                                                                |
| Date <u>16-8-2012</u> | Signature of inventor _____ | <br>Ernst Jan van KLINKEN |
| Date _____            | Signature of inventor _____ | Harm van der WERFF                                                                                          |
| Date _____            | Signature of inventor _____ | Leonard Josef Arnold NIELABA                                                                                |
| Date _____            | Signature of inventor _____ | Roelof MARISSSEN                                                                                            |

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| Date _____                             | Signature of inventor _____ | _____                        |
|                                        |                             | Koen van PUTTEN              |
| Date _____                             | Signature of inventor _____ | _____                        |
|                                        |                             | Johannes Maria Mathias WILMS |
| Date _____                             | Signature of inventor _____ | _____                        |
|                                        |                             | Ernst Jan van KLINKEN        |
| Date <u>7<sup>th</sup> August 2012</u> | Signature of inventor _____ | _____                        |
|                                        |                             | Harm van der WERFF           |
| Date _____                             | Signature of inventor _____ | _____                        |
|                                        |                             | Leonard Josef Arnold NIELABA |
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| Date _____           | Signature of inventor _____ | Johannes Maria Mathias WILMS |
| Date _____           | Signature of inventor _____ | Ernst Jan van KLINKEN        |
| Date _____           | Signature of inventor _____ | Harm van der WERFF           |
| Date <u>21/08/12</u> | Signature of inventor _____ | Leonard Josef Arnold NIELABA |
| Date _____           | Signature of inventor _____ | Roelof MARISSSEN             |

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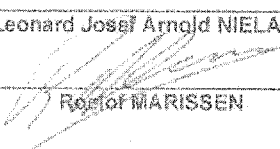
The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

|                          |                             |                                                                                                        |
|--------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------|
| Date _____               | Signature of inventor _____ | Koen van PUTTEN                                                                                        |
| Date _____               | Signature of inventor _____ | Johannes Maria Mathias WILMS                                                                           |
| Date _____               | Signature of inventor _____ | Ernst Jan van KLINKEN                                                                                  |
| Date _____               | Signature of inventor _____ | Harm van der WERFF                                                                                     |
| Date _____               | Signature of inventor _____ | Leonard Josef Arnold NIELABA                                                                           |
| Date <u>31 July 2012</u> | Signature of inventor _____ | <br>Rector MARISSSEN |