PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---|----------------|
| Rafael Wilhelmus Elisabeth Ghislain REINTJENS | 05/20/2009 |
| Quirinus Bernardus BROXTERMAN | 05/20/2009 |
| Martina KOTTHAUS | 05/20/2009 |
| Peter POECHLAUER | 05/20/2009 |

RECEIVING PARTY DATA

| Name: | DSM IP ASSETS B.V. |
|-----------------|--------------------|
| Street Address: | Het Overloon 1 |
| City: | Heerlen |
| State/Country: | NETHERLANDS |
| Postal Code: | 6411 TE |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 12301113 | |

CORRESPONDENCE DATA

Fax Number: (703)816-4100

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 703-816-4000 Email: dlb@nixonvan.com

Correspondent Name: NIXON & VANDERHYE, PC

Address Line 1: 901 NORTH GLEBE ROAD, 11TH FLOOR

Address Line 4: ARLINGTON, VIRGINIA 22203

ATTORNEY DOCKET NUMBER: BHD-4662-966

NAME OF SUBMITTER: Bryan H. Davidson

Total Attachments: 3

source=4662-966_Assignment#page1.tif

OP \$40.00 1230

PATENT 500911540 REEL: 022962 FRAME: 0267

source=4662-966_Assignment#page2.tif source=4662-966_Assignment#page3.tif

PATENT REEL: 022962 FRAME: 0268

Case No.: 4:562-966

25062-US-PCT

ASSIGNMENT OF U.S. PATENT APPLICATION

| | 1/ 8/ AA'E'62' L | <u>ceintjens</u> | |
|---|---------------------|--|--|
| | 2) Q.B. Broxt | erman | |
| (arotnevni) | 3) M. Kotthau | 8 | |
| | 4) P. Poechla | uer | |
| | | | |
| | la con | Sideration of the same - Face | - VIIII COLOR OF THE COLOR OF T |
| | Considerations | naid to come of the sum of one | adollar (\$1.00) and other good and valuable |
| | hereby does a | ssign, transfer and set over | oned, the undersigned agree(s) to assign, and |
| (Assignee) | DSM IP Asset | · 다 사 | to and |
| (Address) | Het Overloon | 3 D. V. | |
| | 6411 TE HEE |) Dì (==================================== | |
| | THE NETHER | NEEN Lanna | |
| | /horomodern de | DAINDS | |
| | the linter Sec | signated as the Assignee) t | he undersigned's entire right, title and interest for |
| | the child 200 | es, its territories, dependen | ne undersigned's entire right, title and interest for cies and possessions in the invention, and all |
| (Title) | whitestions to | patent and any Letters Pai | cies and possessions in the invention, and all ent which may be granted therefore, known as |
| (-11.0) | こうしつじゅうしょう | K THE PRODUCTION OF | ent which may be granted therefore, known as COMPOUNDS VIA HAZARDOUS |
| | for which the | ES IN A SERIES OF MICR | OREACTORS |
| | | | |
| | patent in the Ur | nited States of America or, | tted on even date herewith an application for for for on evan date, then has executed |
| | | | has elready filed U.S. appin. Serial No. |
| | 12/301,1 | 13 | On November 17, 2008 |
| | The undersigne | d acknowledges an obligati | |
| | | | |
| The u | Indersianon assa | and the later of t | |
| application or | any interference | which may be desired a | and documents necessary in connection with the dany continuing or divisional applications |
| thereof and a | SO to everute co | MANAGA ALIESTANIA DE S | - any commung or divisional applications |
| may deem ne | CESSOR! At AVAA | Example and Example . | iccount with such applications as the Assigned |
| with claims or | Drovigione at the | item and further to perform | any act which may be necessary in connection |
| agreements | bigaratotta Of file | memational Convention for | any act which may be necessary in connection or Protection of Industrial Property or similar |
| | | | |
| U 801 | ndersigned agre | e(s) to perform all affirmativ | e acts which may be necessary to obtain a |
| | | | |
| The u | Indersioned band | the mindle makes and a second | (s) the Commissioner of Patents to issue any |
| and all Letters | Patent of the Ur | rited States regular from | (s) the Commissioner of Patents to issue any aid application or any division or divisions or |
| COntinuing and | lications themse | to the safet A to | and application of any division of divisions or |
| COvenants that | the har about a | was first at the group and pro- | Parametric interest, and hereby |
| (they have) no | E executed and u | till bot oppmire till et | signee of the entire interest, and hereby intire interest herein assigned, and that he has |
| | | | |
| | | | |
| una assigniner | it any further ide: | ntification which may be nee | N & VANDERHYE P.C. the power to insert on cessary or desirable in order to comply with the |
| ACCIONATION - | iteo States Pater | it Office for recordation of t | pessary or desirable in order to comply with the his document. It is understood and agreed that |
| VOOLGMEE'S 8 | morneys Nixon 8 | Vanderhye P.C. have repr | his document. It is understood and agreed that esented only ASSIGNEE and will continue to |
| chieseur only | ASSIGNEE with | respect to this invention. | The stand is continue to |
| in with | 589 whereof, exe | Culed by the understanced a | n the date(s) opposite the undersigned |
| signature(s). | | | in the date(s) opposite the undersigned |
| | | | g and a second |
| Date 20 May | 2009 | Signature of inventor | francis Character Control |
| | | AGUSTALE OF HIAGITOR | A comment |
| Date 20 May | 2009 | Discount on at the contract | R.W.E.G. Reintjens |
| *************************************** | | Signature of inventor | |
| Date 20 May | 2009 | Oleman | Q.B. Broxterman |
| 20 th 12.4 y | | Signature of inventor | CONTRACT OF A SECTION ASSESSMENT |
| Date 20 May | 20na | Office and the second | M. Kotthaus |
| - was the leady | | Signature of inventor | · · · · · · च प्रदेश के कि कि |
| Date | | man a | P. Poechlauer |
| ~ 4165 | | Signature of inventor | · · · · · · · · · · · · · · · · · · · |

PATENT

REEL: 022962 FRAME: 0269

Case No.: 2662-966

| | 25062-US-PCT |
|----------------------|--|
| | ASSIGNMENT OF U.S. PATENT APPLICATION |
| | 1) R.W.E.G. Reintjens |
| | 2) Q.B. Broxterman |
| (Inventors) | 3) M. Kotthaus |
| | 4) P. Poechlauer |
| | |
| | In consideration of the sum of one dollar (\$1.00) and other good and valuable |
| | |
| (Assignee) | hereby does assign, transfer and set over to DSM IP Assets B.V. |
| (Address) | Het Overloon 1 |
| • | 6411 TE HEERLEN |
| | THE NETHERLANDS |
| | (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for |
| | The Prince Protes, to territories, neperiories and noccordanc in the impaction of the impac |
| (Title) | applications for patent and any Letters Patent which may be arented therefore because as |
| (1169) | - FINDOMORPA FOR THE MICORUGICAN OF COMPOSINING MADADADAGE |
| | INTERMEDIATES IN A SERIES OF MICROREACTORS |
| | 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 find 1.5 marks executed |
| | or has already filed U.S. appln. Serial No. 12/301,113 on November 17, 2008 |
| • | The undersigned acknowledges an obligation of assignment of this invention to said |
| | assignee at the time the invention was made. |
| The u | indersigned agree(s) to execute all papers and documents necessary in connection with the |
| MANAMETON OF | MIN INCUIDING WHICH INSVICE DECISION AND ANY CONTINUES AN SIGNIFICAL CONTINUES. |
| CHOLOGIA DINA GI | BUILD CACCULE SEDBLAGE ARSIMOMENTS IN COMPACTION With AUGIL AND CONTRACTOR AS ILL. A |
| 11,00 h march 111130 | PPPPPIY OF CADCUICIN 280 HISTORY IN DEPTOYOR AND Get which may be become in a community |
| with didinis Of | provisions of the International Convention for Protection of Industrial Property or similar |
| agreements. | |
| The u | ndersigned agree(s) to perform all affirmative acts which may be necessary to obtain a |
| grant of a valid | d United States patent to the Assignee. |
| The u | ndersigned 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 | 20 May 2009 | Signature of inventor | |
|------|-------------|-----------------------|------------------------------------|
| Date | 20 May 2009 | Signature of inventor | R.W.E.G. Reintjens Q.B. Broxterman |
| Date | 20 May 2009 | Signature of inventor | Q.B. Broxterman |
| Date | 20 May 2009 | Signature of inventor | M. Kotthaus |
| Date | | Signature of inventor | P. Poechlauer |

PATENT REEL: 022962 FRAME: 0270

Case No.: 2662-986

25062-US-PCT

ASSIGNMENT OF U.S. PATENT APPLICATION

| (inve | entors) | 1) R.W.E.G. Reintjens 2) Q.B. Broxterman 3) M. Kotthaus 4) P. Poechlauer | | | |
|--|------------|---|--|--|--|
| (Assignee) (Address) | | hereby does assi DSM IP Assets B | iio io each of the Undersig gn, transfer and set over I | dollar (\$1.00) and other good and valuable med, the undersigned agree(s) to assign, and o | |
| | | Het Overloon 1 6411 TE HEERL THE NETHERLA | NDS | | |
| (Title | ·) - | (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the invention, and all applications for patent and any Letters Patent which may be granted therefore, known as PROCESS FOR THE PRODUCTION OF COMPOUNDS VIA HAZARDOUS INTERMEDIATES IN A SERIES OF MICROREACTORS | | | |
| | | on 12/301,11 | ed States of America or, fi | nted on even date herewith an application for not on even date, then has executed has already filed U.S. appln. Serial No. on November 17, 2008 | |
| | | The undersigned assignee at the tire | acknowledges an obligati The the invention was mad | on of assignment of this invention to exid | |
| 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. | | | | | |
| grant | of a valid | d United States pa | tent to the Assignee. | e acts which may be necessary to obtain a | |
| 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 Petent 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 | 20 May | <u>/</u> 2009 | Signature of inventor | | |
| Date | 20 May | 2009 | Signature of inventor | R.W.E.G. Reintjens | |
| Date , | 20 Ma) | / 2009 | Signature of inventor | C/B. Broxterman | |
| Date | 20 May | 2009 | Signature of inventor | Mr. Kotthaus | |
| Date , | | * + + + + + + + + + + + + + + + + + + + | Signature of inventor | P. Poechlauer | |

RECORDED: 07/15/2009

PATENT

REEL: 022962 FRAME: 0271