PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2911294

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------------------|----------------|
| KOEN VANDYCK | 12/28/2011 |
| WIM GASTON VERSCHUEREN | 12/28/2011 |
| PIERRE JEAN-MARIE BERNARD RABOISSON | 12/28/2011 |

RECEIVING PARTY DATA

| Name: | JANSSEN INFECTIOUS DISEASES-DIAGNOSTICS BVBA | |
|-----------------|--|--|
| Street Address: | TURNHOUTSEWEG 30 | |
| City: | BEERSE | |
| State/Country: | BELGIUM | |
| Postal Code: | B-2340 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14368335 |

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 215-628-5755

Email: JNJUSPATENT@CORUS.JNJ.COM

Correspondent Name: BERNARD PLANTZ

Address Line 1: ONE JOHNSON & JOHNSON PLAZA

Address Line 2: JOHNSON & JOHNSON

Address Line 4: NEW BRUNSWICK, NEW JERSEY 08933-7003

| ATTORNEY DOCKET NUMBER: | TIP0260USPCT |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | LYNN S. MOROZIN |
| SIGNATURE: | /Lynn S. Morozin/ |
| DATE SIGNED: | 06/24/2014 |

Total Attachments: 3

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PATENT 502864697 REEL: 033166 FRAME: 0567

General Assignment

WHEREAS, RABOISSON, Pierre Jean-Marie Bernard, citizen of France, residing at Rue Jolie 3, 1331 Rosieres, Belgium (hereinafter referred to as "Assignor"), was employee of Janssen Infectious Diseases – Diagnostics BVBA at the time the invention "Hetero-Bicyclic Derivatives as HCV Inhibitors" (hereinafter referred to as "Invention") was made. The Assignor is co-inventor of that Invention,

for which on the 28th day of December 2011, European Patent Application no. EP11195840.1 was filed at the European Patent Office.

WHEREAS, the Assignor is named as co-inventor in the above-identified patent application; and

WHEREAS, the conditions under which said Invention was made are such that as defined in the contract as an employee of Janssen Infectious Diseases – Diagnostics BVBA the Assignor automatically entitles Janssen Infectious Diseases – Diagnostics BVBA having its place of business at Turnhoutseweg 30, B-2340 Beerse, Belgium (hereinafter referred to as "Assignee") to the entire right, title and interest to said Invention and improvements thereof, including the right to claim priority of a priority application for the Invention, both domestic and foreign; and

WHEREAS, the Assignee is desirous of acquiring Assignor's entire right, title and interest in the Invention and improvements thereof, including the right to claim priority of a priority application for the Invention, both domestic and foreign.

NOW, THEREFORE, BE IT KNOWN, that, for good and valuable consideration the receipt of which from the Assignee is hereby acknowledged, the Assignor for the avoidance of doubts hereby assigns and transfers to the Assignee his entire right, title and interest, including the right to claim priority of a priority application for the Invention, in and to said Invention and improvements thereof, which may be disclosed in a patent application and in and to said patent application, and all foreign equivalents thereof, including all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, both domestic and foreign, that may be granted for said Invention, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.

The Assignor covenants that the Assignor has the full right and obligation to convey the interest assigned by this Assignment, and the Assignor has not executed and will not execute any agreement in conflict with this Assignment.

The Assignor further agrees to make, execute and deliver to the Assignee upon request, any and all papers, documents, declarations, affidavits, or other instruments that may be necessary in the prosecution of any application or applications for the Invention and improvements thereof or reissues of Letters Patent, and to assist the Assignee in every way as may be requested in protecting said Invention. The Assignor acknowledges that this obligation includes the duty to execute, in a timely manner, any Declaration and Power of Attorney that may be necessary in the prosecution of applications relating to said Inventions in the United States or elsewhere.

The Assignor agrees that this general assignment is effective from the 28th day of December 2011.

IN TESTIMONY WHEREOF, the Assignor and Assignee set hereunto their hand and seal this date.

RABOISSON Pierre Jean-Marie Bernard

Janssen Infectious Diseases - Diagnostics BVBA

General Assignment

WHEREAS, VANDYCK, Koen, citizen of Belgium, residing at Deurnestraat 74, 3583 Paal-Beringen, Belgium (hereinafter referred to as "Assignor"), was employee of Janssen Infectious Diseases – Diagnostics BVBA at the time the invention "Hetero-Bicyclic Derivatives as HCV Inhibitors" (hereinafter referred to as "Invention") was made. The Assignor is co-inventor of that Invention,

for which on the 28th day of December 2011, European Patent Application no. EP11195840.1 was filed at the European Patent Office.

WHEREAS, the Assignor is named as co-inventor in the above-identified patent application; and

WHEREAS, the conditions under which said Invention was made are such that as defined in the contract as an employee of Janssen Infectious Diseases – Diagnostics BVBA the Assignor automatically entitles Janssen Infectious Diseases – Diagnostics BVBA having its place of business at Turnhoutseweg 30, B-2340 Beerse, Belgium (hereinafter referred to as "Assignee") to the entire right, title and interest to said Invention and improvements thereof, including the right to claim priority of a priority application for the Invention, both domestic and foreign; and

WHEREAS, the Assignee is desirous of acquiring Assignor's entire right, title and interest in the Invention and improvements thereof, including the right to claim priority of a priority application for the Invention, both domestic and foreign.

NOW, THEREFORE, BE IT KNOWN, that, for good and valuable consideration the receipt of which from the Assignee is hereby acknowledged, the Assignor for the avoidance of doubts hereby assigns and transfers to the Assignee his entire right, title and interest, including the right to claim priority of a priority application for the Invention, in and to said Invention and improvements thereof, which may be disclosed in a patent application and in and to said patent application, and all foreign equivalents thereof, including all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, both domestic and foreign, that may be granted for said Invention, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.

The Assignor covenants that the Assignor has the full right and obligation to convey the interest assigned by this Assignment, and the Assignor has not executed and will not execute any agreement in conflict with this Assignment.

The Assignor further agrees to make, execute and deliver to the Assignee upon request, any and all papers, documents, declarations, affidavits, or other instruments that may be necessary in the prosecution of any application or applications for the Invention and improvements thereof or reissues of Letters Patent, and to assist the Assignee in every way as may be requested in protecting said Invention. The Assignor acknowledges that this obligation includes the duty to execute, in a timely manner, any Declaration and Power of Attorney that may be necessary in the prosecution of applications relating to said Inventions in the United States or elsewhere.

The Assignor agrees that this general assignment is effective from the 28th day of December 2011.

IN TESTIMONY WHEREOF, the Assignor and Assignee set hereunto their hand and seal this date.

anssen Infectious Diseases - Diagnos

PATENT REEL: 033166 FRAME: 0569

General Assignment

WHEREAS, VERSCHUEREN, Wim Gaston, citizen of Belgium, residing at De Wittestraat 5, B-2600 Berchem (Antwerpen), Belgium (hereinafter referred to as "Assignor"), was employee of Janssen Infectious Diseases - Diagnostics BVBA at the time the invention "Hetero-Bicyclic Derivatives as HCV Inhibitors" (hereinafter referred to as "Invention") was made. The Assignor is co-inventor of that Invention,

for which on the 28th day of December 2011, European Patent Application no. EP11195840.1 was filed at the European Patent Office.

WHEREAS, the Assignor is named as co-inventor in the above-identified patent application; and

WHEREAS, the conditions under which said Invention was made are such that as defined in the contract as an employee of Janssen Infectious Diseases - Diagnostics BVBA the Assignor automatically entitles Janssen Infectious Diseases - Diagnostics BVBA having its place of business at Turnhoutseweg 30, B-2340 Beerse, Belgium (hereinafter referred to as "Assignee") to the entire right, title and interest to said Invention and improvements thereof, including the right to claim priority of a priority application for the Invention, both domestic and foreign; and

WHEREAS, the Assignee is desirous of acquiring Assignor's entire right, title and interest in the Invention and improvements thereof, including the right to claim priority of a priority application for the Invention, both domestic and foreign.

NOW, THEREFORE, BE IT KNOWN, that, for good and valuable consideration the receipt of which from the Assignee is hereby acknowledged, the Assignor for the avoidance of doubts hereby assigns and transfers to the Assignee his entire right, title and interest, including the right to claim priority of a priority application for the Invention, in and to said Invention and improvements thereof, which may be disclosed in a patent application and in and to said patent application, and all foreign equivalents thereof, including all substitutions, divisions, and continuations thereof, and in and to all Letters Patent, both domestic and foreign, that may be granted for said Invention, and in and to all extensions, renewals, and reissues thereof, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made.

The Assignor covenants that the Assignor has the full right and obligation to convey the interest assigned by this Assignment, and the Assignor has not executed and will not execute any agreement in conflict with this Assignment.

The Assignor further agrees to make, execute and deliver to the Assignee upon request, any and all papers, documents, declarations, affidavits, or other instruments that may be necessary in the prosecution of any application or applications for the Invention and improvements thereof or reissues of Letters Patent, and to assist the Assignee in every way as may be requested in protecting said Invention. The Assignor acknowledges that this obligation includes the duty to execute, in a timely manner, any Declaration and Power of Attorney that may be necessary in the prosecution of applications relating to said Inventions in the United States or elsewhere.

The Assignor agrees that this general assignment is effective from the 28th day of December 2011.

IN TESTIMONY WHEREOF, the Assignor and Assignee set hereunto their hand and seal this date.

VERSCHUEREN, Wim Gaston

RECORDED: 06/24/2014

Janssen Infectious Diseases - Diagnostics BVBA

PATENT REEL: 033166 FRAME: 0570