504700259 12/21/2017

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| LUCA MARCIANI | 03/17/2016 |
| CAROLINE LOUISE HOAD | 03/18/2016 |
| PENELOPE ANNE GOWLAND | 03/18/2016 |
| ALAN CHRISTOPHER | 03/22/2016 |
| MARK ROBERT FOX | 03/16/2016 |
| ROBIN CHARLES SPILLER | 03/17/2016 |

RECEIVING PARTY DATA

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| City: | NOTTINGHAM |
| State/Country: | GREAT BRITAIN |
| Postal Code: | NG7 2RD |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15324233 |

CORRESPONDENCE DATA

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| SIGNATURE: | /Heather J. Dodge/ |
| DATE SIGNED: | 12/21/2017 |

PATENT 504700259 REEL: 044940 FRAME: 0849

Total Attachments: 13 source=20171221_Assignments_29522_1910#page1.tif source=20171221_Assignments_29522_1910#page2.tif source=20171221_Assignments_29522_1910#page3.tif source=20171221_Assignments_29522_1910#page4.tif source=20171221_Assignments_29522_1910#page5.tif source=20171221_Assignments_29522_1910#page6.tif source=20171221_Assignments_29522_1910#page7.tif source=20171221_Assignments_29522_1910#page8.tif source=20171221_Assignments_29522_1910#page9.tif source=20171221_Assignments_29522_1910#page10.tif source=20171221_Assignments_29522_1910#page11.tif source=20171221_Assignments_29522_1910#page12.tif source=20171221_Assignments_29522_1910#page12.tif source=20171221_Assignments_29522_1910#page13.tif

INVENTORS' ACKNOWLEDGEMENT AND PATENT ASSIGNMENT

This Agreement is made the

day of

2016

BY AND BETWEEN

Luca MARCIANI ("the First Inventor") of 52 Harrow Road, West Bridgford, Nottingham NG2 7DU, United Kingdom of the first part; and

Roy HARRIS ("the Second Inventor") of 13 Church Street, Bingham, Nottingham NG13 8AL, United Kingdom of the second part; and

Caroline Louise HOAD ("the Third Inventor") of 10 Windmill Meadow, Spondon, Derby, DE21 7SZ, United Kingdom of the third part; and

Penelope Anne GOWLAND ("the Fourth Inventor") of 57 Gertrude Road, Nottingham NG2 5DA, UK of the fourth part; and

Atan Christopher PERKINS ("the Fifth Inventor") of 10 Maple Grove, Breaston, Derbyshire, DE72 3BN, United Kingdom of the fifth part; and

Mark Robert FOX ("the Sixth Inventor") of Terrassenstrasse 17, CH-4144 Arlesheim, Switzerland of the sixth part; and

Robin Charles SPILLER ("the Seventh Inventor") of Ashbrook House, Ashbrook Lane, off Bell Lane, Poulton, Cirencester, Gloucestershire GL7 5JF, United Kingdom of the seventh part; and

Nottingham University Hospitals NHS Trusi ("the Assignee") of QMC Campus, Derby Road, Nottingham NG7 2UH, United Kingdom of the eighth part; and

The University of Nottingham ("the Employer") of University Park, Nottingham NG7 2RD, United Kingdom of the ninth part

WHEREAS

- A. The First Inventor, Second Inventor, Third Inventor, Fourth Inventor, Fifth Inventor and Sixth Inventor (collectively "the Inventors") are jointly the actual devisers of the invention ("the Invention") described in International Patent Application PCT/GB2015/051948 (the "Patent Application") which was filed on 3 July 2015 and which claims priority from United Kingdom Patent Application 1412040.6 ("the Priority Application") which was filed on 7 July 2014.
- B. The Invention was made by the First, Third, Fourth, Fifth, Sixth and Seventh Inventors in the course of their employment with the Employer.
- C. The Invention was made by the Second Inventor in the course of his employment with the Assignee.
- The Priority Application and the Patent Application were filed in the name of the Assignee.
- E. The Employer and the Assignee have entered into a Research Agreement, under the terms of which all rights in and to the Patent Application, the Priority Application and the Invention are to vest in the Assignee.
- F: The parties to this assignment desire to confirm that all right and title and interest in and to the Patent Application, the Priority Application and to the Invention are to be vested in the Assignee.

NOW THEREFORE IT IS AGREED as follows:

- Each of the First, Third, Fourth, Fifth, Sixth and Seventh Inventors hereby ACKNOWLEDGES that the Invention arcse in the course of their normal duties and the circumstances were such that an invention might reasonably have been expected to result from the carrying out of their duties, and that therefore as between them and the Employer all the rights to the Invention belong to the Employer by virtue of Section 39(1) of the Patents Act 1977.
- The Second Inventor hereby ACKNOWLEDGES that the invention arose in the course of his normal duties and the circumstances were such that an invention might reasonably have been expected to result from the carrying out of his duties, and that therefore as between the second inventor and the Assignee all the rights to the invention belong to the Assignee by virtue of Section 39(1) of the Patents Act 1977.

- In the event that notwithstanding the foregoing any rights in and to the Patent Application, the Priority Application or the Invention remain vested in the Inventors or any of them, each of the Inventors AGREES that they will, at the request and expense of the Assignee and in consideration of the sum of one pound sterling (£1) ASSIGN to the Assignee with full title guarantee all of their right title and interest in and to the Patent Application, the Priority Application and the Invention for all countries of the world, including without limitation the United Kingdom and all countries of the Patent Cooperation Treaty, including the right to file applications for and obtain corresponding protection in any and all countries of the world and to claim priority from the Priority Application, together with any and all divisional, continuation, continuation-in-part, reissue applications and the like, and each of the Inventors hereby CONSENTS to the filing of any and all applications in respect of sald Invention in the name of the Assignee.
- In consideration of the sum of one pound sterling (£1), the Employer hereby ASSIGNS to the Assignee with full guarantee its right title and interest in and to the Patent Application, the Priority Application and the Invention for all countries of the world, including without limitation the United Kingdom and all countries of the Patent Cooperation Treaty, including the right to file applications for and obtain corresponding protection in any and all countries of the world and to claim priority from the Priority Application, together with any and all divisional, continuation, continuation-in-part, reissue applications and the like, and the Employer hereby CONSENTS to the filing of any and all applications in respect of said Invention in the name of the Assignee.
- 5. The Inventors hereby covenant and agree to do all such things and to execute without further consideration such documents as may be reasonably required to file and prosecute applications for protection of the Invention in such countries as shall be determined by the Assignee, and at the expense of the Assignee to give all reasonable assistance in obtaining and enforcing any such protection.

IN WITNESS whereof the parties hereto have executed this Agreement

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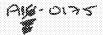
WHEREAS

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- A. The First Inventor, Second Inventor, Third Inventor, Fourth Inventor, Fifth Inventor and Sixth Inventor (collectively "the Inventors") are jointly the actual devisers of the Invention ("the Invention") described in International Patent Application PCT/GB2015/051948 (the "Patent Application") which was filed on 3 July 2015 and which claims priority from United Kingdom Patent Application 1412040.6 ("the Priority Application") which was filed on 7 July 2014.
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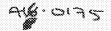
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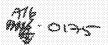
IN WITNESS whereof the parties hereto have executed this Agreement



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