505417076 04/08/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

tylesheet Version v1.2

EPAS ID: PAT5463866

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| LUET LOK WONG | 10/07/2015 |
| STEPHEN GRAHAM BELL | 12/13/2015 |
| CHRISTOPHER WHITEHOUSE | 12/11/2015 |

RECEIVING PARTY DATA

| Name: | ISIS INNOVATION LIMITED |
|-------------------|--------------------------|
| Street Address: | EWERT HOUSE, EWERT PLACE |
| Internal Address: | SUMMERTOWN |
| City: | OXFORD |
| State/Country: | UNITED KINGDOM |
| Postal Code: | OX2 7SG |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15802321 |

CORRESPONDENCE DATA

Fax Number: (713)651-5246

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: 713-651-5567

Email: hoipdocket@nortonrosefulbright.com

Correspondent Name: ANNIE AYMOND-NORTON ROSE FULBRIGHT USLLP

Address Line 1: 1301 MCKINNEY STREET HOUSTON, TEXAS 77010

| ATTORNEY DOCKET NUMBER: | KEMPP0046USD1C11001005158 |
|-------------------------|---------------------------|
| NAME OF SUBMITTER: | ANNIE AYMOND |
| SIGNATURE: | /Annie Aymond/ |
| DATE SIGNED: | 04/08/2019 |

Total Attachments: 5

| source=executed_Assignment_ | _SN_15802321_KEMP_P0046USD1C1_1001005158#page1.tif |
|-----------------------------|--|
| source=executed_Assignment_ | _SN_15802321_KEMP_P0046USD1C1_1001005158#page2.tif |
| source=executed_Assignment_ | _SN_15802321_KEMP_P0046USD1C1_1001005158#page3.tif |

PATENT 505417076 REEL: 048824 FRAME: 0538

> PATENT REEL: 048824 FRAME: 0539

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made by Luct Lok Wong having an address at University of Oxford, Department of Chemistry, Inorganic Chemistry Laboratory, South Parks Road, Oxford, OX1 3QR, UNITED KINGDOM; Stephen Graham Bell having an address at University of Oxford, Department of Chemistry, Inorganic Chemistry Laboratory, South Parks Road, Oxford, OX1 3QR, UNITED KINGDOM; and Christopher Whitehouse having an address at University of Oxford, Department of Chemistry, Inorganic Chemistry Laboratory, South Parks Road, OXFORD, OX1 3QR, UNITED KINGDOM, (hereinafter referred to as Assignors);

WHEREAS, Assignors have invented certain new and useful improvements in MUTANT ENZYMES, set forth in a Patent application for Letters Patent of the United States, already filed on September 11, 2015 as U.S. Patent Application No. 14/852,218; which is a divisional of U.S. Patent Application No. 12/681,868 filed May 18, 2010; which is a National Phase application claiming priority to International Application No. PCT/GB2008/003407 filed October 8, 2008, which claims a benefit of priority to GB Patent Application No. 07719620.7 filed October 8, 2007; and

WHEREAS, Isis Innovation Limited, having its principal place of business at Ewert House, Ewert Place, Summertown, Oxford, OX2 7SG, UNITED KINGDOM (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and

1

N102191E-US

KEMP.P0046US.D1 35542377.1 thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under

the International Convention for the Protection of Industrial Property, the same to be held and

enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal

representatives and assigns, to the full end of the term or terms for which Letters Patent may be

granted and/or extended, as fully and entirely as the same would have been held and enjoyed by

Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to

Assignee, its successors, legal representatives and assigns, that, at the time of execution and

delivery of these presents, except for any rights, titles and/or interests that have arisen to

Assignee under law or that have already been transferred to Assignee, Assignors are the sole

and lawful owners of the entire right, title and interest in and to the said inventions and

application for Letters Patent above-mentioned, and that the same are unencumbered and that

Assignors have good and full right and lawful authority to sell and convey the same in the

manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with

Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers

and documents, take all lawful oaths and do all acts necessary or required to be done for the

procurement, maintenance, enforcement and defense of any Letters Patent and applications for

Letters Patent for said inventions, whenever counsel of Assignee, or counsel of its successors,

legal representatives and assigns requests such action.

AND Assignors hereby request the Commissioner of Patent and Trademarks to

issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and

the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors,

legal representatives and assigns.

AND Assignors hereby grant the following individuals 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 and Trademark Office for recordation of this

document:

NORTON ROSE FULBRIGHT US LLP

KEMP.P0046US.D1-11507867

All practitioners at Customer Number 26271

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

| Date: | 7 October | <u>2015</u> | Signature: | Luct Lok Wong |
|-------|-----------|-------------|------------|------------------------|
| Date: | | | Signature: | Stephen Graham Bell |
| Date: | | : | Signature: | Christopher Whitehouse |

All practitioners at Customer Number 26271

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

| Date: | Signature: Luet Lok Wong |
|------------------|-----------------------------------|
| Date: 13/12/2015 | Signature: Stephen Graham Bell |
| Date: | Signature: Christopher Whitehouse |

KEMP.P0046US.D1-11507867 35542377.1

| | | | e. | 7 t | | | y E | 4 81 | | | . 4 | C. | |
|---------|------|------------|-----------------|---------------|-----|-------|-------|------|-----------|----|------|-----------|------|
| | 14 | AND | Assignors | acknowledge | an | oblig | ation | of a | ssignment | of | this | invention | i to |
| Angiore | inne | a december | insci tha lesso | mtion more ma | ta. | | | | | | | | |

The second secon The contract of the contract o and the second of the second of the register than the second of the seco

Stephen Graham Bell

All practitioners at Customer Number 26271

A CAMBART FOR STATE A STATE OF STATE OF

AND THE RESERVE OF THE SECOND STATES OF THE SECOND

i de la recompanie de la completa de la recomposition de la recomposition de la recomposition de la recomposit ring to the last testings and other increases they have the last one consiste of the eight followed by

KEMP.P0046US.D1-11507867 35542377.1

i gyan kifika a lilipina kalingkula sang prakting