

ASSIGNMENT

WHEREAS, the undersigned, to wit:

Fabrizio GIORDANETTO residing at 120 W. 45th Street - 39th Floor, New York, New York 10036;

Morten Østergaard JENSEN residing at c/o PricewaterhouseCoopers, Strandvejen 44, 2900 Hellerup, DENMARK;

Roger John SNOW residing at 29 East Gate Road, Danbury, Connecticut 06811

(hereinafter collectively "ASSIGNORS"), have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

"ARYL HETEROCYCLIC COMPOUNDS AS Kv1.3 POTASSIUM SHAKER CHANNEL BLOCKERS"

- (a) ☐ which is being filed herewith in the United States Patent and Trademark Office;
- (b) ☒ which was filed as U.S. Patent Application No. 63/168,056
on March 30, 2021 ;
- (c) ☐ which was filed as International Patent Application No. _____
on _____ designating the United States; and

WHEREAS, D. E. Shaw Research, LLC (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having its principal place of business at 120 W. 45th Street - 39th Floor, New York, New York 10036, is desirous of acquiring the entire right, title, and interest in and to said invention and any and all patents that may be obtained therefor, and in and to said application and any and all patents that may issue therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS do hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the United States and foreign countries that may be obtained therefor, including the right to sue for past infringement and obtain past damages, and in and to said application, including any and all non-provisionals, continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom, such right, title, and interest including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in the name of said ASSIGNEE, its successors, assigns, and legal representatives, throughout

the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

ASSIGNORS also do hereby covenant that they have the full right to convey the entire right, title, and interest herein assigned, and that they have not and will not execute any agreement in conflict herewith;

ASSIGNORS also do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNORS also do hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest in said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom to said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

ASSIGNORS also do hereby grant to ASSIGNEE, its successors and assigns, and legal representatives thereof, including 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 or foreign equivalent thereof for recordation of this document:

WILMER CUTLER PICKERING HALE AND DORR LLP

All practitioners at Customer Number 23483

This ASSIGNMENT is effective as of March 30, 2021 .

15 Dec 2021

Date



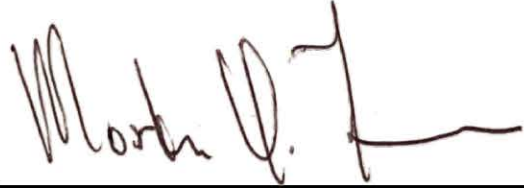
Fabrizio Giordanetto

Witness:

Date

12/15/2021

Date

A handwritten signature in dark ink, appearing to read "Morten Østergaard Jensen", written over a horizontal line.

Morten Østergaard Jensen

Witness:

Date

12/15/2021
Date

R. J. Snow
Roger John Snow

Witness:

Date

ASSIGNEE hereby acknowledges and accepts the foregoing assignment.

D. E. Shaw Research, LLC

Signature:



Date:

12/15/21

Name:

Charles Ardai

Title:

Authorized Signatory

ASSIGNMENT

WHEREAS, the undersigned, to wit:

Vishwanath JOGINI residing at Sanali Infopark, 8-2-120/1 13, Road No. 2, Hyderabad, 500034, Telangana, India

(hereinafter collectively "ASSIGNOR"), has made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

"ARYL HETEROCYCLIC COMPOUNDS AS Kv1.3 POTASSIUM SHAKER CHANNEL BLOCKERS"

- (a) ☐ which is being filed herewith in the United States Patent and Trademark Office;
- (b) ☒ which was filed as U.S. Patent Application No. 63/168,056
on March 30, 2021 ;
- (c) ☐ which was filed as International Patent Application No. _____
on _____ designating the United States; and

WHEREAS, D. E. Shaw India Private Limited (hereinafter "ASSIGNEE"), having its principal place of business at Plot No. 573, B & C, Road No. 1, Jubilee Hills, Hyderabad 500 096, Telangana, India, is desirous of acquiring the entire right, title, and interest in and to said invention and any and all patents that may be obtained therefor, and in and to said application and any and all patents that may issue therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the United States and foreign countries that may be obtained therefor, including the right to sue for past infringement and obtain past damages, and in and to said application, including any and all non-provisionals, continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom, such right, title, and interest including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in the name of said ASSIGNEE, its successors, assigns, and legal representatives, throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

ASSIGNOR also does hereby covenant that he has the full right to convey the entire right, title, and interest herein assigned, and that he has not and will not execute any agreement in conflict herewith;

ASSIGNOR also does hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest in said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom to said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

ASSIGNOR also does hereby grant to ASSIGNEE, its successors and assigns, and legal representatives thereof, including 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 or foreign equivalent thereof for recordation of this document:

WILMER CUTLER PICKERING HALE AND DORR LLP

All practitioners at Customer Number 23483

This ASSIGNMENT is effective as of March 30, 2021 .

17 December 2021

Date

JOGINI

VISHWANATH

Vishwanath Jogini

Digitally signed
by JOGINI
VISHWANATH

Witness:

17 December 2021

Date

GARIMA JAIN

Digitally signed
by GARIMA JAIN

ASSIGNEE hereby acknowledges and accepts the foregoing assignment.

D. E. Shaw India Private Limited

CHAITANYA
GORREPATI

Digitally signed
by CHAITANYA
GORREPATI

Signature: _____

Date: 17 December 2021

Name: Chaitanya Gorrepati

Title: Authorised Signatory

ASSIGNMENT

WHEREAS, D. E. Shaw India Private Limited (hereinafter "ASSIGNOR"), having its principal place of business at Plot No. 573, B & C, Road No. 1, Jubilee Hills, Hyderabad 500 096, Telangana, India, represents that it is the owner of a certain new and useful invention as set forth in an application for United States Letters Patent, entitled:

"ARYL HETEROCYCLIC COMPOUNDS AS Kv1.3 POTASSIUM SHAKER CHANNEL BLOCKERS"

- (a) ☐ which is being filed herewith in the United States Patent and Trademark Office;
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NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer, and set over unto said ASSIGNEE, its successors, assigns, and legal representatives, all right, title, and interest in and to said invention throughout the world, and any and all patents of the United States and foreign countries that may be obtained therefor, including the right to sue for past infringement and obtain past damages, and in and to said application, including any and all non-provisionals, continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom, such right, title, and interest including the right to file applications and obtain patents, utility models, industrial models, and designs for said invention in the name of said ASSIGNEE, its successors, assigns, and legal representatives, throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registries;

ASSIGNOR also does hereby covenant that it has the full right to convey the entire right, title, and interest herein assigned, and that it has not and will not execute any agreement in conflict herewith;

ASSIGNOR also does hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application, including any continuations, continuations-in-part, divisions, reissues, re-examinations, substitutions, and extensions thereof, to said ASSIGNEE, its successors, assigns, and legal representatives as the ASSIGNEE of the entire right, title, and interest herein assigned;

ASSIGNOR also does hereby agree to, at any time, upon request, without further or additional consideration but at the expense of said ASSIGNEE, its successors, assigns, or legal representatives, execute and deliver any and all papers, make all rightful oaths, and do all lawful acts that may be necessary or desirable to perfect the entire right, title, and interest in said application, including any and all continuations, continuations-in-part, divisionals, reissues, re-examinations, substitutions, and extensions thereof, and any and all patents of the United States and foreign countries that may issue therefrom to said ASSIGNEE, its successors, assigns, and legal representatives, and generally do everything possible to vest the entire right, title, and interest herein assigned in said ASSIGNEE, its successors, assigns, and legal representatives;

ASSIGNOR also does hereby grant to ASSIGNEE, its successors and assigns, and legal representatives thereof, including 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 or foreign equivalent thereof for recordation of this document:

WILMER CUTLER PICKERING HALE AND DORR LLP

All practitioners at Customer Number 23483.

IN WITNESS WHEREOF, the parties have caused this Assignment to be executed by their duly authorized representatives as of the effective date.

D. E. Shaw India Private Limited

CHAITANYA
GORREPATI

Digitally signed
by CHAITANYA
GORREPATI

Signature: _____

Date: 17 December 2021

Name: Chaitanya Gorrepati

Title: Authorised Signatory

D. E. Shaw Research, LLC

Signature: _____

Date: _____

Name: _____

Title: _____

IN WITNESS WHEREOF, the parties have caused this Assignment to be executed by their duly authorized representatives as of the effective date.

D. E. Shaw India Private Limited

Signature: _____ Date: _____
Name: _____
Title: _____

D. E. Shaw Research, LLC

Signature:  Date: 12/15/21
Name: Charles Andai
Title: Authorized Signatory