507686104 01/10/2023

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7733246

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

CONVEYING PARTY DATA

| Name | Execution Date | |
|-------------|----------------|--|
| IMARA, INC. | 11/10/2022 | |

RECEIVING PARTY DATA

| Name: | CARDURION PHARMACEUTICALS, INC. | |
|-----------------|---------------------------------|--|
| Street Address: | 78 BLANCHARD ROAD, SUITE 200 | |
| City: | BURLINGTON | |
| State/Country: | MASSACHUSETTS | |
| Postal Code: | 01803 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 16615347 | |

CORRESPONDENCE DATA

Fax Number: (202)842-7899

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Address Line 2: SUITE 700

Address Line 4: WASHINGTON, D.C. 20004

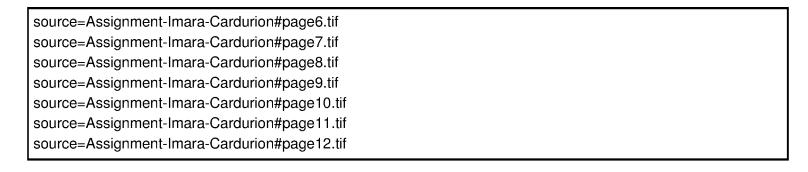
| ATTORNEY DOCKET NUMBER: CDPH-011N01US 341287-2382 | |
|---|--------------|
| NAME OF SUBMITTER: | HENG ZHANG |
| SIGNATURE: | /HENG ZHANG/ |
| DATE SIGNED: | 01/10/2023 |

Total Attachments: 12

source=Assignment-Imara-Cardurion#page1.tif source=Assignment-Imara-Cardurion#page2.tif source=Assignment-Imara-Cardurion#page3.tif source=Assignment-Imara-Cardurion#page4.tif source=Assignment-Imara-Cardurion#page5.tif

> PATENT REEL: 062323 FRAME: 0088

507686104



PATENT ASSIGNMENT

This Patent Assignment dated as of November 10, 2022 (this "<u>Patent Assignment</u>"), is made by and between Imara Inc., a Delaware corporation ("<u>Assignee</u>"), and Cardurion Pharmaceuticals Inc., a Delaware corporation ("<u>Assignee</u>"). Capitalized terms used but not otherwise defined herein, shall have the meanings given to such terms in the Purchase Agreement (as defined below).

WHEREAS, Assignor and Assignee are parties to an Asset Purchase Agreement dated as of September 6, 2022, by and between Assignor and Assignee (the "<u>Purchase Agreement</u>") pursuant to which, among other things, Assignor has agreed to transfer to Assignee all of Assignor's rights, title and interest in and to the Assigned Patent Rights; and

WHEREAS, Assignor is the sole and exclusive owner, by assignment, of the patent applications listed on attached <u>Schedule A</u> and own the rights for the inventions and the related patents and patent applications listed on <u>Schedule A</u>, which are filed in the United States Patent and Trademark Office ("<u>USPTO</u>") and other patent offices, together with all non-provisional, divisional, continuation, reissue, reexamination and other patent applications claiming priority thereto (the "<u>Patent Applications</u>") and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on said Patent Applications (the "<u>Patents</u>");

NOW THEREFORE, for good and valuable consideration in connection with the sale and purchase of assets pursuant to the Purchase Agreement, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby agree as follows:

- 1. <u>Assignment</u>. Assignor hereby irrevocably conveys, sells, assigns, transfers, and sets over to Assignee and its successors and assigns, and Assignee hereby accepts for the territory of the United States of America and throughout the world all of Assignor's entire rights, title, and interest (including the right to sue and recover for past infringement) in and to Patents and Patent Applications as well as all of the rights incident to such ownership provided by the law of any applicable jurisdiction, by international treaty or convention or otherwise throughout the world to be held and enjoyed by the said Assignee for its own use and behalf and for its successors and assigns any and all royalties, fees, income, payments and other proceeds now or hereafter due or payable with respect to the foregoing.
- 2. Recordation. This Patent Assignment may be recorded with any applicable national, federal and state government authorities including, but not limited to, the USPTO. Assignor authorizes the Commissioner of Patents of the USPTO and any other official throughout the world charged with the registration and recordation of ownership in the Patents and Patent Applications to record Assignee as the assignees and owner of the Patents and Patent Applications and to issue all Patents and Patent Applications on Schedule A to Assignee.
- 3. <u>Further Assurances</u>. Assignor shall execute any and all documents, take all lawful oaths and take all other further actions as reasonably requested by Assignee to

record this Patent Assignment with the USPTO and to transfer title of the Patents and the Patent Applications to Assignee, including, but not limited to, assignments, transfers and related powers of attorney. Assignor agrees to ratify and hereby ratifies any acts of Assignee in applying for a patent in respect of any Patent or Patent Application in Assignee's own name in any jurisdiction where such procedure is proper and agrees to execute or have executed any documents or assignments where it is necessary that they be executed by the inventor(s) and Assignor further agrees to execute assignments of any patent applications.

- 4. <u>Terms of Purchase Agreement</u>. Each of Assignor and Assignee acknowledges and agrees that neither the representations and warranties nor the rights and remedies of any Party under the Purchase Agreement shall be deemed to be enhanced, modified or altered in any way by this Patent Assignment, nor shall any provision hereof be deemed to be a representation or warranty of Assignor for the purpose of Section 9.4 of the Purchase Agreement or a representation or warranty of Assignee for the purpose of Section 9.5 of the Purchase Agreement. The Purchase Agreement shall govern in the case of any conflict, ambiguity or inconsistency between this Patent Assignment and the Purchase Agreement.
- 5. <u>Counterparts</u>. This Patent Assignment may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed one and the same agreement. A signed copy of this Patent Assignment delivered by facsimile, e-mail, or other means of electronic transmission shall be deemed to have the same legal effect as delivery of an original signed copy of this Patent Assignment.
- 6. <u>Successors and Assigns</u>. This Patent Assignment shall be binding upon and shall inure to the benefit of the Assignee and its successors and assigns.
- 7. Governing Law. This Patent Assignment and any claim, controversy, dispute, or cause of action (whether in contract, tort, or otherwise) based upon, arising out of, or relating to this Patent Assignment and the transactions contemplated hereby shall be governed by, and construed in accordance with, the laws of the United States and the Commonwealth of Massachusetts, without giving effect to its internal rules governing the conflict of laws.

[Signature Pages to follow]

IN WITNESS WHEREOF, Assignors have duly executed and delivered this Patent Assignment as of the date first written above.

| | ASSIGNOR |
|---|--|
| | IMARA INC. |
| | By: Name: Rahul Ballal Title: Chief Executive Officer |
| | Address for Notices: 116 Huntington Avenue, 6 th Floor, Boston MA 02116 |
| STATE OF Massachusett | <u>\$</u> \$S. |
| | ne said Rahul Ballal, Chief Executive Officer of to be the act and deed of said entity, this |
| | Notary Public in and for the Commonwealth of |
| My commission expires: | |
| Makifooni w Ashimtan Notary Public Assachusetts My Commission Expires Jan 9, 2026 | AGREED TO AND ACCEPTED: |
| | ASSIGNEE |
| | CARDURION PHARMACEUTICALS, INC. |
| | By: Name: Title: |

IN WITNESS WHEREOF, Assignors have duly executed and delivered this Patent Assignment as of the date first written above.

| | ASSIGNOR |
|------------------------|--|
| | IMARA INC. |
| | By: Name: Title: |
| | Address for Notices: |
| STATE OFCOUNTY OF | ss. |
| | peared the said Rahul Ballal, Chief Executive Officer of egoing to be the act and deed of said entity, this day of |
| My commission expires: | Notary Public in and for the Commonwealth of |
| | AGREED TO AND ACCEPTED: |
| | ASSIGNEE |
| | CARDURION PHARMACEUTICALS, INC. |
| | By: Peter Lawrence Name: Peter Lawrence Title: Chief Executive Officer |

$\underline{\text{SCHEDULE A}}$

Assigned Patent Applications

| Country | Title | Appl. No. / Patent No. | Filing Date | Status |
|--------------|--|---------------------------|-------------|---------|
| Taiwan | PDE9 INHIBITORS FOR TREATING THALASSEMIA | 109115096 | 06-May-2020 | Pending |
| China | PDE9 INHIBITORS FOR TREATING THALASSEMIA | 202080049907.0 | 06-May-2020 | Pending |
| Israel | PDE9 INHIBITORS FOR TREATING THALASSEMIA | 287865 | 06-May-2020 | Pending |
| Australia | PDE9 INHIBITORS FOR TREATING THALASSEMIA | 2020267475 | 06-May-2020 | Pending |
| South Africa | PDE9 INHIBITORS FOR TREATING THALASSEMIA | 2021/08851 | 06-May-2020 | Pending |
| ARIPO | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | AP/P/2019/011257 | 30-Jun-2017 | Pending |
| Nigeria | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | NG/PT/C/2019/3402 | 30-Jun-2017 | Granted |
| Europe | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | 17740535.4 | 30-Jun-2017 | Pending |
| Australia | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | 2017292650 | 30-Jun-2017 | Pending |
| Brazil | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | BR112019000005 4 | 30-Jun-2017 | Pending |
| Israel | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | 264048 | 30-Jun-2017 | Pending |
| Mexico | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | MX/a/2018/016127 | 30-Jun-2017 | Pending |

| | | Appl. No. / Patent | | |
|-----------------|--|--------------------|-------------|---------|
| Country | Title | No. | Filing Date | Status |
| South Africa | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | 2019/00055 | 30-Jun-2017 | Pending |
| Algeria | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | 180594 | 30-Jun-2017 | Pending |
| Egypt | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | PCT 8/2019 | 30-Jun-2017 | Pending |
| Morocco | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | 44025 | 30-Jun-2017 | Granted |
| Tunisia | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | TN2018/0383 | 30-Jun-2017 | Pending |
| UAE | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | P6000023/2019 | 30-Jun-2017 | Pending |
| Bahrain | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | BP3/2019 | 30-Jun-2017 | Pending |
| Hong Kong | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | 19130289.2 | 30-Jun-2017 | Pending |
| US | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | 17/067,588 | 09-Oct-2020 | Pending |
| India | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | 202118041539 | 30-Jun-2017 | Pending |
| China | PDE9 INHIBITORS FOR TREATMENT OF PERIPHERAL DISEASES | 202210219655.2 | 30-Jun-2017 | Pending |
| Taiwan | METHODS OF MAKING AND USING PDE9 INHIBITORS | 107117910 | 25-May-2018 | Pending |
| China | METHODS OF MAKING AND USING PDE9 INHIBITORS | 201880049927.0 | 25-May-2018 | Pending |

| | Appl. No. / Patent | | | |
|--------------|---|------------------|-------------|---------|
| Country | Title | No. | Filing Date | Status |
| Brazil | METHODS OF MAKING AND USING PDE9 INHIBITORS | 1120190248773 | 25-May-2018 | Pending |
| US | METHODS OF MAKING AND USING PDE9 INHIBITORS | 11,370,795 | 20-Nov-2019 | Issued |
| Canada | METHODS OF MAKING AND USING PDE9 INHIBITORS | 3,064,004 | 25-May-2018 | Pending |
| Korea | METHODS OF MAKING AND USING PDE9 INHIBITORS | 10-2019-7038404 | 25-May-2018 | Pending |
| Japan | METHODS OF MAKING AND USING PDE9 INHIBITORS | 2019-565330 | 25-Nov-2018 | Pending |
| Thailand | METHODS OF MAKING AND USING PDE9 INHIBITORS | 1901007437 | 25-May-2018 | Pending |
| Israel | METHODS OF MAKING AND USING PDE9 INHIBITORS | 270792 | 25-May-2018 | Pending |
| Eurasia | METHODS OF MAKING AND USING PDE9 INHIBITORS | 201992721 | 25-May-2018 | Pending |
| Mexico | METHODS OF MAKING AND USING PDE9 INHIBITORS | MX/a/2019/014049 | 25-May-2018 | Pending |
| India | METHODS OF MAKING AND USING PDE9 INHIBITORS | 201917049959 | 25-May-2018 | Pending |
| Europe | METHODS OF MAKING AND USING PDE9 INHIBITORS | 18805780.6 | 25-May-2018 | Pending |
| Hong Kong | METHODS OF MAKING AND USING PDE9 INHIBITORS | 62020020156.9 | 25-May-2018 | Pending |
| US | METHODS OF MAKING AND USING PDE9 INHIBITORS | 17/723,669 | 19-Apr-2022 | Pending |
| US | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 17/186,442 | 26-Feb-2021 | Pending |
| Brazil | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 1120210036865 | 29-Aug-2019 | Pending |
| Canada | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 3,110,680 | 29-Aug-2019 | Pending |

| 6 4 | Tesa | Appl. No. / Patent | Er b. | 61.4 |
|-----------------|--|--------------------|-------------|---------|
| Country | Title | No. | Filing Date | Status |
| China | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 201980071992.8 | 29-Aug-2019 | Pending |
| Europe | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 19853434.9 | 29-Aug-2019 | Pending |
| Eurasia | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 202190460 | 29-Aug-2019 | Pending |
| Korea | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 10-2021-7009591 | 29-Aug-2019 | Pending |
| Australia | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 2019328299 | 29-Aug-2019 | Pending |
| South Africa | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 2021/01352 | 29-Aug-2019 | Pending |
| Japan | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 2021-510225 | 29-Aug-2019 | Pending |
| Thailand | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 2101001126 | 29-Aug-2019 | Pending |
| Australia | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 2019275075 | 23-May-2019 | Pending |
| Algeria | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 200621 | 23-May-2019 | Pending |
| ARIPO | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | AP/P/2020/012803 | 23-May-2019 | Pending |
| Bahrain | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- | 216/2020 | 23-May-2019 | Pending |

| Country | Title | Appl. No. / Patent | Filing Date | Status |
|---------|--|--------------------|-------------|---------|
| - | | No. | | |
| | 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | | | |
| Brazil | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 1120200240192 | 23-May-2019 | Pending |
| Canada | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 3,100,988 | 23-May-2019 | Pending |
| China | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 201980049524.0 | 23-May-2019 | Pending |
| Europe | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 19807965.9 | 23-May-2019 | Pending |
| Egypt | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | PCT 1824/2020 | 23-May-2019 | Pending |
| Israel | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 278875 | 23-May-2019 | Pending |
| Mexico | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- | MX/a/2020/012636 | 23-May-2019 | Pending |

| Country | Title | Appl. No. / Patent No. | Filing Date | Status |
|-----------------|--|------------------------|-------------|---------|
| | 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | | | |
| South Africa | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 2020/07224 | 23-May-2019 | Pending |
| UAE | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | P6001640/2020 | 23-May-2019 | Pending |
| Thailand | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 2001006731 | 23-May-2019 | Pending |
| Japan | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 2020-564326 | 23-May-2019 | Pending |
| Korea | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 10-2020-7037068 | 23-May-2019 | Pending |
| Eurasia | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 202092762 | 23-May-2019 | Pending |
| US | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- | 17/110,000 | 02-Dec-2020 | Pending |

| | 700.00 | Appl. No. / Patent | | G: |
|--------------|--|--------------------|-------------|---------|
| Country | Title | No. | Filing Date | Status |
| | 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | | | |
| Nigeria | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | NG/PT/C/2020/5054 | 23-May-2019 | Pending |
| Hong Kong | MONOHYDRATE AND CRYSTALLINE FORMS OF 6- [(3S,4S)-4-METHYL-1-(PYRIMIDIN- 2-YLMETHYL)PYRROLIDIN-3-YL]- 3-TETRAHYDROPYRAN-4-YL-7H- IMIDAZO[1,5-A]PYRAZIN-8-ONE | 62021036265.8 | 23-May-2019 | Pending |
| China | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 202080041606.3 | 03-Apr-2020 | Pending |
| Canada | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 3,136,128 | 03-Apr-2020 | Pending |
| Brazil | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 1120210198768 | 03-Apr-2020 | Pending |
| Europe | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 20783704.8 | 03-Apr-2020 | Pending |
| Israel | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 286976 | 03-Apr-2020 | Pending |
| Japan | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | TBD | 03-Apr-2020 | Pending |
| South Africa | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 2021/07544 | 03-Apr-2020 | Pending |
| PCT | METHODS AND COMPOSITIONS FOR TREATING SICKLE CELL DISEASE | PCT/US2021/045765 | 12-Aug-2021 | Pending |
| WO | PDE9 INHIBITORS FOR TREATING CARDIAC FAILURE | PCT/US2021/056696 | 26-Oct-2021 | Pending |
| US | IMPROVED PDE9 INHIBITORS FOR TREATING THALASSEMIA | 63/279,583 | 15-Nov-2021 | Pending |

| Country | Title | Appl. No. / Patent No. | Filing Date | Status |
|---------|---|---------------------------|-------------|-----------|
| US | METHODS AND COMPOSITIONS FOR TREATING HEART DISEASE | 63/321,315 | 18-Mar-2022 | Pending |
| Egypt | PDE9 INHIBITORS WITH IMIDAZO TRIAZINONE BACKBONE | 1229/2014 | 25-Jan-2013 | Abandoned |
| US | PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE | 17/493,677 | 04-Oct-2021 | Abandoned |
| US | PDE9 INHIBITORS FOR TREATING THALASSEMIA | 17/514,337 | 29-Oct-2021 | Abandoned |
| Brazil | PDE9 INHIBITORS WITH IMIDAZO TRIAZINONE BACKBONE | BR 11 2014 018199 3 | 25-Jan-2013 | Abandoned |

RECORDED: 01/10/2023