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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JASON ALLAN WILES | 03/01/2018 |
| AVINASH S. PHADKE | 03/01/2018 |
| DAWEI CHEN | 03/01/2018 |
| VENKAT RAO GADHACHANDA | 03/01/2018 |
| JOEL CHARLES BARRISH | 02/28/2018 |
| ATUL AGARWAL | 03/01/2018 |
| KYLE J. EASTMAN | 03/01/2018 |
| RECEIVING PARTY DATA | |
| Name: | ACHILLION PHARMACEUTICALS, INC. |
| Street Address: | 300 GEORGE STREET |
| City: | NEW HAVEN |
| State/Country: | CONNECTICUT |
| Postal Code: | 06511 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16555930 |
| CORRESPONDENCE DATA | |
| Fax Number: | |
| <i>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.</i> | |
| Phone: | 6786941262 |
| Email: | docket@kipsllc.com |
| Correspondent Name: | KNOWLES INTELLECTUAL PROPERTY STRATEGIES, LLC |
| Address Line 1: | 400 PERIMETER CENTER TERRACE |
| Address Line 2: | SUITE 200 |
| Address Line 4: | ATLANTA, GEORGIA 30346 |
| ATTORNEY DOCKET NUMBER: | 12033-078WO1US1 |
| NAME OF SUBMITTER: | BRENT R. BELLOWS |
| SIGNATURE: | /Brent R. Bellows/ |
| DATE SIGNED: | 09/17/2019 |

PATENT

Total Attachments: 9

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ASSIGNMENT

WHEREAS, **JASON ALLAN WILES** of Madison, CT; **AVINASH S. PHADKE** of Branford, CT; **DAWEI CHEN** of Guilford, CT; **VENKAT RAO GADHACHANDA** of Cheshire, CT; **JOEL CHARLES BARRISH** of Richboro, PA; **ATUL AGARWAL** of Hamden, CT; and **KYLE J. EASTMAN**, of Killingworth, CT (“Assignors”), have invented certain new and useful inventions disclosed in the following PCT Patent Application titled “**MACROCYCLIC COMPOUNDS FOR TREATMENT OF MEDICAL DISORDERS,**” filed in the United States Patent and Trademark Office acting as the Receiving Office on March 1, 2018 and assigned PCT Application No. PCT/US18/20531 (“Application”), which claims priority to U.S. Provisional Application No. 62/465,600, filed on March 1, 2017, U.S. Provisional Application No. 62/466,252, filed on March 2, 2017, and U.S. Provisional Application No. 62/500,287, filed on May 2, 2017, titled “**MACROCYCLIC DRUGS FOR TREATMENT OF MEDICAL DISORDERS,**” and for which an application for Letters Patent in the United States and/or other foreign jurisdictions will be made.

WHEREAS, **ACHILLION PHARMACEUTICALS, INC.** (“Assignee”), a business entity organized and existing under the laws of the state of Connecticut, and having its principal offices at 300 George Street, New Haven, CT 06511, is entitled to the ownership of this invention and all applications describing this invention by virtue of the employment or contractual agreement of the inventors, and thus desires to acquire the entire right, title and interest in and to said inventions, improvements and applications and in and to the Letters, to the extent not already done so.

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we, **JASON ALLAN WILES, AVINASH S. PHADKE, DAWEI CHEN, VENKAT RAO GADHACHANDA, JOEL CHARLES BARRISH, ATUL AGARWAL,** and **KYLE J. EASTMAN** by these presents do sell, assign, and transfer to **ACHILLION PHARMACEUTICALS, INC.**, to the extent not already done so, the full, exclusive, and entire right, title, and interest in and to said Application, and in and to all inventions and improvements disclosed and described in said Application, as well as all know-how derived during the development of, and directed to, the inventions and improvements disclosed and described in said Application.

For the same consideration, we, by these presents, do sell, assign, and transfer to **ACHILLION PHARMACEUTICALS, INC.** the full, exclusive, and entire right, title, and interest in and to any U.S. nonprovisional or foreign application or any other applications that correspond to or claim priority to said Applications, in whole or in part, and to any Letters Patent and similar protective rights granted on said U.S. nonprovisional or foreign applications, and in and to the right to claim any applicable priority rights

arising from or required for said U.S. nonprovisional or foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations, including to all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, all reexaminations, and all reissues or extensions of such patents; said U.S. nonprovisional or foreign applications to be filed and issued in the name of **ACHILLION PHARMACEUTICALS, INC.** or its designee insofar as permitted by applicable law;

AND, for the consideration aforesaid, we do hereby agree that we and our executor(s) and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

We hereby authorize a representative of Knowles Intellectual Property Strategies, LLC, 400 Perimeter Center Terrace NE, Suite 200, Atlanta, Georgia, 30346 USA, to insert in the blanks above the filing date and/or application number of said application when known.

Date: 3/1/18

[Signature]
JASON ALLAN WILES

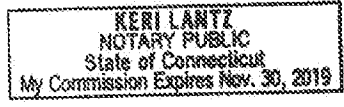
STATE OF Connecticut

Before me, a Notary Public in and for the State of Connecticut, on this 1st day of March, 2018, personally appeared JASON ALLAN WILES, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

[Signature]
NOTARY PUBLIC

(SEAL)

My Commission Expires: November 30, 2019



Date: 3/1/2018

AVINASH S. PHADKE
AVINASH S. PHADKE

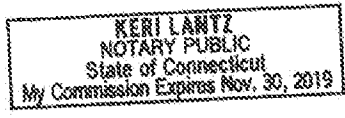
STATE OF Connecticut

Before me, a Notary Public in and for the State of Connecticut, on this 1st day of March, 2018, personally appeared AVINASH S. PHADKE, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Keri Lantz
NOTARY PUBLIC

(SEAL)

My Commission Expires: November 30, 2019



Date: 3/1/2018

[Signature]
DAWEI CHEN

STATE OF Connecticut

Before me, a Notary Public in and for the State of Connecticut, on this 1st day of March, 2018, personally appeared **DAWEI CHEN**, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

[Signature]
NOTARY PUBLIC

(SEAL)

My Commission Expires: November 30, 2019



Date: 3/1/2018

Venkat Rao
VENKAT RAO GADHACHANDA

STATE OF Connecticut

Before me, a Notary Public in and for the State of Connecticut, on this 1st day of March, 2018, personally appeared **VENKAT RAO GADHACHANDA**, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Keri Lantz
NOTARY PUBLIC

(SEAL)

My Commission Expires: November 30, 2019



Date: February 28, 2018 Joel Charles Barrish
JOEL CHARLES BARRISH

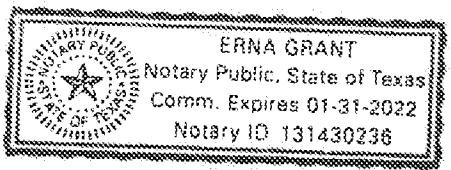
STATE OF TEXAS

Before me, a Notary Public in and for the State of TEXAS, on this 28 day of FEB., 2018, personally appeared **JOEL CHARLES BARRISH**, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Erna Grant
NOTARY PUBLIC

(SEAL)

My Commission Expires: 1/31/22



Date: 03/01/2018

Atul Agarwal
ATUL AGARWAL

STATE OF Connecticut

Before me, a Notary Public in and for the State of Connecticut, on this 1st day of March, 2018, personally appeared ATUL AGARWAL, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Keri Lantz
NOTARY PUBLIC

(SEAL)

My Commission Expires: November 30, 2019



Date: 3/1/18

[Signature]
KYLE J. EASTMAN

STATE OF Connecticut

Before me, a Notary Public in and for the State of Connecticut, on this 1st day of March, 2018, personally appeared **KYLE J. EASTMAN**, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

[Signature]
NOTARY PUBLIC

(SEAL)

My Commission Expires: November 30, 2019

KERI LANTZ
NOTARY PUBLIC
State of Connecticut
My Commission Expires Nov. 30, 2019