

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                                      |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                                          |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                     |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>                               |
| GREGORY R. THATCHER                                                                                                                                                                             | 12/09/2015                                          |
| RUI XIONG                                                                                                                                                                                       | 12/09/2015                                          |
| JIONG ZHAO                                                                                                                                                                                      | 12/09/2015                                          |
| DEBRA A. TONETTI                                                                                                                                                                                | 12/09/2015                                          |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                                     |
| <b>Name:</b>                                                                                                                                                                                    | THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS |
| <b>Street Address:</b>                                                                                                                                                                          | 506 WRIGHT STREET                                   |
| <b>City:</b>                                                                                                                                                                                    | URBANA                                              |
| <b>State/Country:</b>                                                                                                                                                                           | ILLINOIS                                            |
| <b>Postal Code:</b>                                                                                                                                                                             | 61801                                               |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                                     |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                                       |
| <b>Application Number:</b>                                                                                                                                                                      | 16169812                                            |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                                     |
| <b>Fax Number:</b>                                                                                                                                                                              |                                                     |
| <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> |                                                     |
| <b>Phone:</b>                                                                                                                                                                                   | 6786941262                                          |
| <b>Email:</b>                                                                                                                                                                                   | docket@kipsllc.com                                  |
| <b>Correspondent Name:</b>                                                                                                                                                                      | KNOWLES INTELLECTUAL PROPERTY STRATEGIES, LLC       |
| <b>Address Line 1:</b>                                                                                                                                                                          | 400 PERIMETER CENTER TERRACE                        |
| <b>Address Line 2:</b>                                                                                                                                                                          | SUITE 200                                           |
| <b>Address Line 4:</b>                                                                                                                                                                          | ATLANTA, GEORGIA 30346                              |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 12024-044US2                                        |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | BRENT R. BELLOWS                                    |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Brent R. Bellows/                                  |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 12/05/2018                                          |
| <b>Total Attachments: 6</b>                                                                                                                                                                     |                                                     |
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## ASSIGNMENT

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WHEREAS, we, **Gregory R. Thatcher**, of Chicago, Illinois; **Rui Xiong**, of Chicago, Illinois; **Jiong Zhao** of Chicago, Illinois; and **Debra A. Tonetti** of Westchester, Illinois (“Assignors”), have invented certain new and useful improvements disclosed in the following U.S. non-provisional and PCT International patent applications:

“**BENZOTHIOPHENE-BASED SELECTIVE ESTROGEN RECEPTOR DOWNREGULATORS**”, identified in the United States Patent and Trademark Office by U.S.S.N. 15/374,966,

and identified in the International Bureau of WIPO by PCT International Application No. PCT/US2016/066023, which claims priority to U.S. provisional patent application no. 62/264,971, which was filed on December 9, 2015; and which also claims priority to U.S. provisional patent application 62/322,878, which was filed on April 15, 2016; and for which an application for Letters Patent in the United States and other foreign jurisdictions claiming priority to the above-mentioned provisional applications will be made.

WHEREAS, **The Board of Trustees of the University of Illinois** (“Assignee”), an educational institution organized and existing under the laws of the state of Illinois, and having its principal offices at 352 Henry Administration Building, 506 Wright Street, Urbana, IL 61801, is entitled to the ownership of this invention and all applications describing this invention by virtue of the employment 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.

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, **Gregory R. Thatcher, Rui Xiong, Jiong Zhao, and Debra A. Tonetti** by these presents do sell, assign, and transfer to **The Board of Trustees of the University of Illinois** 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 **The Board of Trustees of the University of Illinois** 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 provisional application, 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 **The Board of Trustees of the University of Illinois** 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.

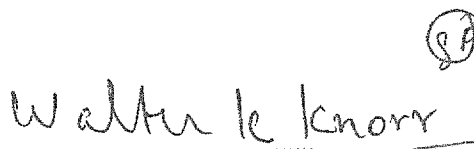
AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed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

The Assignor agrees that this general assignment is effective from the 9th day of December 2015.

IN TESTIMONY, WHEREOF, the Assignor and Assignee set hereunto their hands and seal this date.



.....  
**Gregory R. Thatcher**



.....  
**Authorized Signatory  
The Board of Trustees of the University of  
Illinois**

IN TESTIMONY, WHEREOF, the Assignor and Assignee set hereunto their hands and seal this date.

(S)

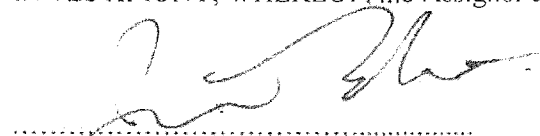
Rui Xiong

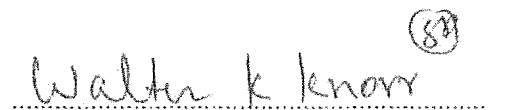
Rui Xiong

Walter K. Knorr

Authorized Signatory  
The Board of Trustees of the University of  
Illinois

IN TESTIMONY, WHEREOF, the Assignor and Assignee set hereunto their hands and seal this date.

  
.....  
Jiong Zhao

  
.....  
Authorized Signatory  
The Board of Trustees of the University of  
Illinois

IN TESTIMONY, WHEREOF, the Assignor and Assignee set hereunto their hands and seal this date <sup>8/1</sup>

*Debra A. Tonetti*

Debra A. Tonetti

*Walter LeKnoy*

Authorized Signatory  
The Board of Trustees of the University of  
Illinois