

PATENT ASSIGNMENT COVER SHEET

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| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | THE UNIVERSITY OF GUELPH | 08/11/2017 |
| RECEIVING PARTY DATA | | |
| Name: | The Board of Trustees of the University of Arkansas | |
| Street Address: | 2404 North University | |
| City: | Little Rock | |
| State/Country: | ARKANSAS | |
| Postal Code: | 72207 | |
| PROPERTY NUMBERS Total: 1 | | |
| | Property Type | Number |
| | Application Number: | 16028599 |
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| SIGNATURE: | /TAMBRYN K. VANHEYNINGEN/ | |
| DATE SIGNED: | 09/20/2018 | |
| Total Attachments: 3 | | |
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| source=2017-08-11_5658-00318_Executed_Assignment_Guelph to UARK#page2.tif | | |
| source=2017-08-11_5658-00318_Executed_Assignment_Guelph to UARK#page3.tif | | |

ASSIGNMENT

THE UNIVERSITY OF GUELPH (herein referred to as "Assignor"), having its principal place of business at 50 Stone Road East, Guelph, Ontario N1G 2W1, CANADA, is an owner of the patent applications listed below. THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS (hereinafter referred to as "Assignee"), having its principal place of business at:

2401 North University Avenue
Little Rock, AR 72207

desires to acquire rights in and to the patents and applications listed below. Therefore, for valuable and sufficient consideration, the receipt whereof is hereby acknowledged, Assignor hereby sells, assigns and conveys unto Assignee, its successors and assigns, our entire right, title and interest –

(1) in and to United States Patent Application No. 14/623,050 which was filed February 16, 2015 (Atty. File No. 5658-00231), which application is a continuation of United States Patent Application No. 12/740,608, filed December 28, 2010, which application claims the benefit of International Patent Application No. PCT/US2008/082254 (hereinafter the "PCT application") filed November 3, 2008, which application in turn claims the benefit of United States Provisional Patent Application No. 60/984,612 filed November 1, 2007 (hereinafter collectively "United States Patent Applications"); and

(2) in and to said United States Patent Applications, in and to all other patent applications derived from or relating to said United States Patent Application (including divisional, continuation, continuation-in-part, §111(b) provisional, §111(a), and reissue applications), and in and to the patent or patents to be granted thereon, including reissues or

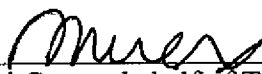
reexaminations thereof, if any, to the full end of the term or terms for which said patent or patents may be granted;

We agree that any United States patent applications with a claim to priority based on any of said United States Patent Applications, International Patent Application or the United States Provisional Patent Application may be filed in the name of Assignee.

We hereby agree that we will, upon demand of Assignee, its successors or assigns, and without further consideration to us, execute any and all papers that may be necessary, or deemed to be necessary, by Assignee, its successors or assigns, to a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers shall be paid by Assignee, its successors and assigns, and not by us.

The Commissioner of Patents and Trademarks of the United States is hereby authorized and requested to issue said United States patent or patents to Assignee.

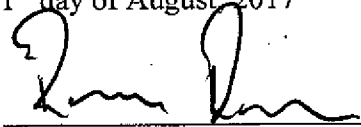
Date: 11th August 2017

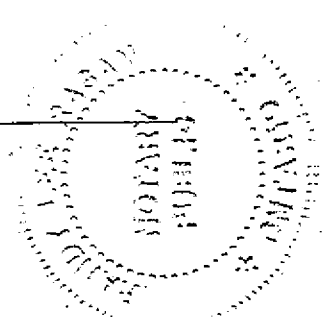

Sherri Cox on behalf of The University of Guelph

Province of Ontario, County of Canada

I hereby certify that Sherri Cox, personally known to me to be the same person or persons who signed the foregoing instrument, appeared before me this day and acknowledge that said instrument was signed and delivered as the free and voluntary act of his, for the uses and purposes therein set forth.

Given under my hand and seal, this 11th day of August, 2017


Randy Ragan, Notary Public



11 August 2017
Date

Lisa C Childs
on behalf of The Board of
Trustees of the University of Arkansas

State of Arkansas)
County of Washington)

Lisa C. Childs, Ph.D.
Assistant Vice President for Technology
Commercialization and Patent Attorney

I hereby certify that Lisa C. Childs, personally known to me to be the same person or persons who signed the foregoing instrument, appeared before me this day and acknowledge that said instrument was signed and delivered as the free and voluntary act of her, for the uses and purposes therein set forth.
_{hers}

Given under my hand and seal, this 11th day of August, 2017

Sarah O'Brien
Notary Public

