

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| CARL E. WAGNER | 01/24/2018 |
| PAMELA A. MARSHALL | 01/24/2018 |
| PETER W. JURUTKA | 01/25/2018 |
| RECEIVING PARTY DATA | |
| Name: | ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY |
| Street Address: | SKYSONG - SUITE 200 |
| Internal Address: | 1475 NORTH SCOTTSDALE ROAD |
| City: | SCOTTSDALE |
| State/Country: | ARIZONA |
| Postal Code: | 85257-3538 |
| PROPERTY NUMBERS Total: 2 | |
| Property Type | Number |
| Application Number: | 15878297 |
| Application Number: | 62449501 |
| CORRESPONDENCE DATA | |
| Fax Number: | (952)876-4098 |
| <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> | |
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| ATTORNEY DOCKET NUMBER: | 17555.046US1; 046PV1 |
| NAME OF SUBMITTER: | JULIE WILMAN |
| SIGNATURE: | /Julie Wilman/ |
| DATE SIGNED: | 03/14/2018 |
| Total Attachments: 4 | |

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ASSIGNMENT

WHEREAS, I/we, (each referred to as "Assignor")

CARL E. WAGNER

PAMELA A. MARSHALL

PETER W. JURUTKA

made certain new and useful inventions and improvements for which I/we filed the following patent application(s)

| COUNTRY | SERIAL NUMBER | FILING DATE |
|---------|---------------|------------------|
| US | 15/878,297 | JANUARY 23, 2018 |
| US | 62/449,501 | JANUARY 23, 2017 |

AND WHEREAS, ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, having an office and place of business at 1475 NORTH SCOTTSDALE ROAD, SKYSONG - SUITE 200, SCOTTSDALE, ARIZONA 85257-3538, (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to any Letters Patent to be obtained therefor;

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, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of said prior agreement, I/we hereby sell, assign, transfer and set over unto said Assignee, including its successors and assigns, my/our entire right, title and interest to all inventions disclosed in the aforesaid application(s), including all rights to claim priority therefrom, and to any and all present or future patent applications to such inventions filed in the United States or any other country or region, inclusive of, but not limited to, all divisions, continuations, continuations-in-part, renewals thereof, substitutions, reexaminations, reissues, provisional patent applications, applications filed under the Patent Cooperation Treaty, certificates of addition, utility models, and petty patents, as well as all other intellectual property related to the applications, inclusive of, but not limited to, supplementary protection certificates, and to any and all Letters Patents and any related patent term extensions that may be granted for said Letters Patents with respect

to the applications; all of the above to be held by Assignee as fully and entirely as the same would have been held by me had this Assignment not been made.

AND, for the consideration aforesaid, I/we do hereby agree that I/we and my/our executors 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 me 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 sold, assigned and conveyed, or intended so to be.

AND, furthermore, I/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 me/us and that full right to convey the same as herein expressed is possessed by me/us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 24th day of January, 2018.

Carl E. Wagner
CARL E. WAGNER

IN TESTIMONY WHEREOF, I have hereunto set my hand this 24th day of January, 2018.

Pamela A. Marshall
PAMELA A. MARSHALL

IN TESTIMONY WHEREOF, I have hereunto set my hand this 25th day of January, 2018.

Peter W. Jurutka
PETER W. JURUTKA

We agree to and accept the attached assignment document on this _____ day of _____, 2018.

FOR ARIZONA BOARD OF REGENTS ON BEHALF OF
ARIZONA STATE UNIVERSITY

SIGNATURE: _____

NAME: _____

TITLE: _____