504610290 10/25/2017

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| Paul K. Westerhoff | 10/12/2017 |
| Paul Dahlen | 10/09/2017 |
| Onur Apul | 10/04/2017 |

RECEIVING PARTY DATA

| Name: | ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY |
|-----------------|--|
| Street Address: | 1475 NORTH SCOTTSDALE ROAD, SKY SONG SUITE 200 |
| City: | SCOTTSDALE |
| State/Country: | ARIZONA |
| Postal Code: | 85257-3538 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15719011 |

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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.

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| ATTORNEY DOCKET NUMBER: | 22193-0138001 | |
|-------------------------|-------------------|--|
| NAME OF SUBMITTER: | VERONICA JUAREZ | |
| SIGNATURE: | /Veronica Juarez/ | |
| DATE SIGNED: | 10/25/2017 | |

Total Attachments: 4

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PATENT REEL: 043944 FRAME: 0725

Attorney Docket No.: 22193-0138001

ASSIGNMENT

For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, PAUL K. WESTERHOFF, PAUL DAHLEN, and ONUR APUL, each individually assign to ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, a corporation formed under the laws of Arizona and having a principal place of business at 1475 North Scottsdale Road, Sky Song — Suite 200, Scottsdale, AZ 85257-3538, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the subject matter (the "Subject Matter") of a patent application that names us as inventors, is titled "MICROWAVE-ENABLED THERMAL REMEDIATION OF ORGANIC CHEMICAL CONTAMINATED SOILS USING DIELECTRIC NANOMATERIALS AS ADDITIVES." and was filed in the United States Patent and Trademark Office on September 28, 2017, as application 15/719.011 (the "Application"), which claims benefit of US Provisional Application 62/400.735, filed on September 28, 2016.

This Assignment assigns (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

Assignment Page 1 of 4

Attorney Docket No.: 22193-0138001

We will communicate to the Assignee (or at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter, will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and documents, and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.

| Paul K. Westerhoff | | 1201: |
|------------------------------------|---------------------|-------|
| Witnessed by: | | |
| Signature: | Date: <u>10/17/</u> | 12017 |
| Print Name: <u>See Gro Goberta</u> | SEGURA | |
| Signature: | Date: | |

Attorney Docket No.: 22193-0138001

Print Name: Anjahi Mulchand and

Witnessed by:

Signature:

Print Name:

| | Astorney Docket No.: 22193-0138001 |
|------------------------------|------------------------------------|
| Onur Apul | Date: 10 /4 /607* |
| Witnessed by: | Date: 10/4 / 2017 |
| Print Name: Mesere Pagenyain | , , |
| Print Name: Sokhy Long | Date: <u>/0/4//7</u> |

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RECORDED: 10/25/2017

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