PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| WILLIAM R. WAGNER | 06/17/2019 |
| SANG-HO YE | 06/13/2019 |
| YINGQI CHEN | 07/25/2019 |

RECEIVING PARTY DATA

| Name: | UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION |
|-------------------|---|
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| City: | PITTSBURGH |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 15260 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16498035 |

CORRESPONDENCE DATA

Fax Number: (412)566-6099

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ECKERT SEAMANS CHERIN & MELLOTT LLC **Correspondent Name:**

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| ATTORNEY DOCKET NUMBER: | 214001-01640 US |
|-------------------------|------------------|
| NAME OF SUBMITTER: | CAROL A. MARMO |
| SIGNATURE: | /Carol A. Marmo/ |
| DATE SIGNED: | 10/02/2019 |

Total Attachments: 4

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PATENT REEL: 050602 FRAME: 0420

ASSIGNMENT

For good and other valuable consideration, the receipt of which is hereby acknowledged, we WILLIAM R. WAGNER, residing at 300 Harrison Ct., Gibsonia, Pennsylvania 15044, SANG-HO YE, residing at 238 Alpine Village Drive, Cheswick, Pennsylvania 15024, YINGQI CHEN, residing at 5500 Raleigh Street, Pittsburgh, Pennsylvania 15217;

Hereby sell, assign and transfer to the UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, a non-profit Pennsylvania corporation, having a place of business at 1st Floor Gardner Steel Conference Center, 130 Thackeray Avenue, Pittsburgh, Pennsylvania 15260, in the County of Allegheny and Commonwealth of Pennsylvania, its successors, assigns and legal representatives, our entire right, title and interest, for all countries, in and to any and all improvements which are disclosed and claimed, and any and all improvements which are disclosed but not claimed in PCT International Application No. PCT/US2018/025997, filed on April 4, 2018, entitled "MG ALLOY MESH REINFORCED POLYMER/ECM HYBRID SCAFFOLDS FOR CRITICAL-SIZED BONE DEFECT REGENERATION," which claims priority from United States Provisional Patent Application No. 62/481,206, filed on April 4, 2017, entitled "MG ALLOY MESH REINFORCED POLYMER/ECM HYBRID SCAFFOLDS FOR CRITICAL-SIZED BONE DEFECT REGENERATION," and in and to said applications and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed on any of said improvements disclosed in said applications; and in and to all original and reissued patents which have been or shall be issued on said improvements;

Authorize and request the Commissioner of Patents and Trademarks to issue to said Assignee, the UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION, its successors, assigns and legal representatives, in accordance with this Assignment, any and all United States Letters Patent on said improvements, or any of them, disclosed in said applications;

Agree that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment we will, for all countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths and other papers; communicate to said Assignee, its successors, assigns and representatives,

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all facts known to us relating to said improvements and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said improvements, and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives;

Covenant with said Assignee, its successors, assigns and legal representatives that we have made to others no assignment, grant, mortgage, license or other agreement affecting the rights and property conveyed, and that we have full right to convey the same as herein expressed.

| Executed at the place and date below. | |
|--|--|
| WILLIAM R. WAGNER | |
| COMMONWEALTH OF PENNSYLVANI | A) ss. |
| COUNTY OF ALLEGHENY |) |
| SOUAC-IMILICAL AATTITITIATA ME AALAFRIANIK AM | , 2019, before me personally came the no executed the foregoing instrument in my presence, unent was executed by his *** free will for the |
| purpose set forth therein. | |
| COMMINWEALTH OF PERROYLVANIA | Notary Publication Oficers The Anconony Cours |
| ROTARIAL SEAL SCOTT ALAM JOHNSON NOTES PECINE CONTACTA LEGISTRY COUNTY | My commission expires: 555 24, 2020 |

| Executed at the place and date below. | |
|---------------------------------------|---|
| GANG 10 YELL | |
| SANG-HO YE | |
| COMMONWEALTH OF PENNSYLVAN | Ž |
| COUNTY OF ALLEGHENY |) ss.) |
| above-named SANG-HO YE who executed | , 2019, before me personally came the I the foregoing instrument in my presence, and who as executed by his/her own free will for the purpose |
| | Notary Public For PEMSYLVANIA |
| | My commission expires: 10/1/2019 |
| [SEAL] | COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Martania C. Felton, Notary Public City of Pittsburgh, Allegheny County My Commission Expires Oct. 1, 2019 NECOSER, PENISYLVANIA ASSOCIATION OF NOTARIES |

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| Executed at Chemolon Institute of Advanced Tedra | ologi(place) on <u>July 25, 2019</u> (date). |
| | |
| Ymagi Chen | |
| YINGQI CHEN | |
| IN THE PRESENCE OF THE FOLLOWING W | ITNESS: |
| XIANGBO MENG | |
| Print Name | |
| Xiomerta Menor | |
| Signature | |
| July 25, 2019 | |
| | |