505946484 03/03/2020

PATENT ASSIGNMENT COVER SHEET

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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------|----------------|
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| JIWEN ZHAO | 02/24/2020 |
| JIAQI ZHU | 02/24/2020 |
| LEI YANG | 02/24/2020 |
| WENXIN CAO | 02/24/2020 |
| KANG LIU | 02/24/2020 |
| JIECAI HAN | 02/24/2020 |
| GUOYANG SHU | 02/24/2020 |
| GE GAO | 02/24/2020 |
| KAILI YAO | 02/24/2020 |
| BENJIAN LIU | 02/24/2020 |

RECEIVING PARTY DATA

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| State/Country: | CHINA | |
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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16800689 |

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505946484 REEL: 052077 FRAME: 0510

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| NAME OF SUBMITTER: | TAMMY DUNKIN | |
| SIGNATURE: | /Tammy Dunkin/ | |
| DATE SIGNED: | 03/03/2020 | |
| Total Attachments: 4 | | |
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PATENT REEL: 052077 FRAME: 0511 ASSIGNMENT

WHEREAS, We, DAI, Bing, ZHAO, Jiwen, ZHU, Jiaqi, YANG, Lei, CAO,

Wenxin, LIU, Kang, HAN, Jiecai, SHU, Guoyang, GAO, Ge, VAO, Kaili and LIU, Benjian, all

of Hatbin, Hellongjiang, China, hereby declare that we are the original inventors of the

invention relating to a METHOD FOR PREPARING DIAMOND-ASSISTED HEAT-

DISSIPATION SILICON CARBIDE SUBSTRATE Gan HEMTS THROUGH A DIRECT

GROWTH METHOD for which we are about to make application for Letters Patent of the

United States; and

WHEREAS, Harbin Institute of Technology, having its principal place of

business at 92 Dazhi West Street, Nangang District, Harbin, Heilongjiang, China (150001), is

desirous of acquiring an interest in, to and under said invention, said application and any and all

Letters Patent which may be granted for or upon said invention in the United States of America

and all countries foreign thereto;

NOW, THEREFORE, to all whom it may concern, be it known that for good and

valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we,

DAI, Bing, ZHAO, Jiwen, ZHU, Jiaqi, YANG, Lei, CAO, Wenxin, LIU, Kang, HAN, Jiecai,

SHU, Guoyang, GAO, Ge, YAO, Kaili and LIU, Benjian, have sold, assigned and transferred,

and by these presents do sell, assign and transfer unto said Harbin Institute of Technology the

full and exclusive right, title and interest, throughout the world, in, to and under said invention

as fully set forth and described in the above-identified application; in, to and under said

application; in, to and under any and all refilings, divisions and continuations of said

application; in, to and under any and all Letters Patent of the United States of America

which may issue from said application, refilings, divisions and continuations; in, to and

Page 1 of 4

REEL: 052077 FRAME: 0512

under any and all reissues of said Letters Patent of the United States of America; in, to and under any and all applications for Letters Patent upon said invention which may bereafter be filled in any and all countries foreign to the United States of America; in, to and under any and all refillings, divisions and continuations of said foreign-filed applications; in, to and under any and all Letters Patent of countries foreign to the United States of America, which may issue from the said foreign-filed applications, refilings, divisions and continuations; and in, to and under any and all extensions of, and additions to, said Letters Patent of countries foreign to the United States of America, the same to be held and enjoyed by said Harbin Institute of Technology for its own use and behoof, and for its successors, legal representatives and assigns, to the full end of the term for which said Letters Patent may be granted, and we do hereby authorize and request the Commissioner of Patents to issue the said Letters Patent in accordance with this assignment.

| EXECUTED this 24th day o | of <u>February</u> , 2020. |
|--------------------------|----------------------------|
| | PAL Bing DAI, Bing |
| | DAI, Bing ~ |
| EXECUTED this 4 day o | of Edition 3, 2020. |
| | 2HD. Tiwn |
| | ZHAO, Jiwen |

Page 2 of 4

Page 3 of 4

| EXECUTED this 4 | day of February, 2020. | |
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| | GA0,6e | |
| | GAO, Ge | |
| EXECUTED this 74 | day of <u>FC 171/47</u> , 2020. | |
| | YAO, W. 11 | |
| | YAO, Kaili | |
| EXECUTED this 24 | May or February, 2020. | |
| | LIV Benjiqa LIV, Benjian | |

Page 4 of 4