

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ZHIYI ZHANG | 09/18/2018 |
| YE TAO | 09/18/2018 |
| TA-YA CHU | 09/18/2018 |
| GAOZHI XIAO | 10/15/2018 |
| RECEIVING PARTY DATA | |
| Name: | NATIONAL RESEARCH COUNCIL OF CANADA |
| Street Address: | 1200 MONTREAL ROAD |
| Internal Address: | OTTAWA |
| City: | ONTARIO |
| State/Country: | CANADA |
| Postal Code: | K1A 0R6 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15740589 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | JASON A. WORGULL |
| SIGNATURE: | /Jason A. Worgull/ |
| DATE SIGNED: | 11/15/2018 |
| Total Attachments: 5 | |

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CONFIRMATORY ASSIGNMENT

WHEREAS, we, **Zhiyi ZHANG**, a citizen of **CANADA** residing at **22 Norgold Crescent, Ottawa, Ontario K2T 1J1, CANADA**, **Ye TAO**, a citizen of **CANADA** residing at **1671 Place des Ravins, Ottawa, Ontario K1C 6H5, CANADA**, **Gaozhi XIAO**, a citizen of **CANADA** residing at **708 Kilmar Crescent, Ottawa, Ontario K2T 0B1, CANADA** and **Ta-Ya CHU**, a citizen of **CANADA** residing at **1655 Country Walk Drive, Ottawa, Ontario K1C 8E2, CANADA** and in the course of our work at and/or for the National Research Council of Canada have made an invention (hereinafter the "Invention") for which we have made application for Letters Patent entitled

SELF-ALIGNING METAL PATTERNING BASED ON PHOTONIC SINTERING OF METAL NANOPARTICLES

filed in the **United States** on **July 3, 2015** under U.S. Provisional Patent Application No. **62/188,553**; filed in the **Patent Cooperation Treaty Office** on **June 30, 2016** under Application No. **PCT/CA2016/050769**; filed in **Taiwan** on **July 1, 2016** under Patent Application No. **105120938** and filed as a national phase entry in the **United States** on **January 3, 2018** under U.S. Patent Application No. **15/740,589** (hereinafter the "Application");

AND WHEREAS, **National Research Council of Canada**, a Departmental Corporation forming part of the Government of Canada, created by an act of Parliament, the National Research Council Act, R. S. C. 1985, c. N-15, having its principal offices at 1200 Montreal Road, Ottawa, Ontario K1A 0R6, CANADA. is our employer and/or maintains facilities or equipment that we used in making the Invention, and is the owner of our rights in the Invention by action of law, namely s. 3 of *The Public Servants Inventions Act* of Canada, or by agreement;

NOW, THEREFORE, in consideration of having been provided with an opportunity to participate in scientific research at the National Research Council of Canada and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, **Zhiyi ZHANG**, **Ye TAO**, **Gaozhi XIAO** and **Ta-Ya CHU** hereby

2015-067

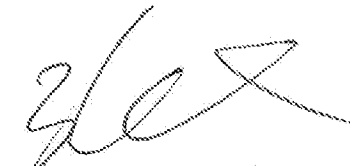
confirm that we did transfer to the National Research Council of Canada all of our right, title and interest in and to the Invention in all countries of the world and in and to the Application and all subsequent patent applications based thereon, including any regular patent applications that claim priority therefrom, and any and all continuations, divisions and reissues of any of the foregoing, together with the right to claim priority from the Application under the provisions of any international agreements and national laws including the International Convention for the Protection of Industrial Property.

AND we hereby confirm that we have the right to make the assignment herein free of any encumbrances or interests of any other parties,

AND we hereby authorize the Commissioner of Patents and Trademarks, and any official of any country authorized to issue patents, to issue any Letters Patent for the Invention to National Research Council of Canada, to the extent that the same would have been issued to us in the event that ownership rested with us as inventors.

This Confirmatory Assignment is effective as of **July 3, 2015**.

Executed on Sept 18, 2018



Zhiyi ZHANG

Declaration by Witness

I, TA-YA CHU, whose full post office address is
1655 Country Walk Dr. Ottawa ON K1C 8B2

say:

That I was personally present and did hear and see, **Zhiyi ZHANG**, who is personally known to me duly sign the above Confirmatory Assignment and confirm having read and understood all that it contains.

Jing Chen
(signature of witness)

Executed on Sept. 18, 2018

Ye Tao
Ye TAO

Declaration by Witness

I, ZHIYI ZHANG, whose full post office address is
22 Morgold Crescent, Ottawa, ON K2T 1J1
say:

That I was personally present and did hear and see, **Ye TAO**, who is personally known to me duly sign the above Confirmatory Assignment and confirm having read and understood all that it contains.

[Signature]
(signature of witness)

Executed on Oct. 15, 2018

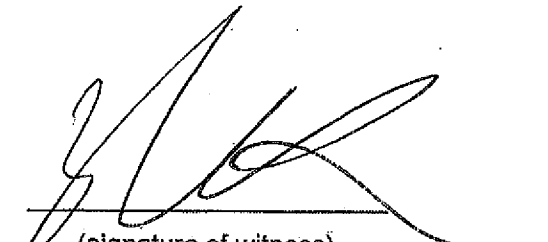
Gaozhi XIAO
Gaozhi XIAO

Declaration by Witness

I, ZHIYI ZHANG, whose full post office address is
22 Morgold Crescent, Ottawa, ON K2T 1J1
say:

That I was personally present and did hear and see, **Gaozhi XIAO**, who is personally known to me duly sign the above Confirmatory Assignment and confirm having read and understood all that it contains.

2015-067


(signature of witness)

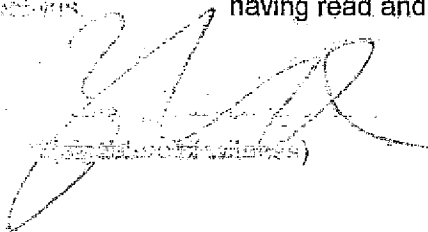
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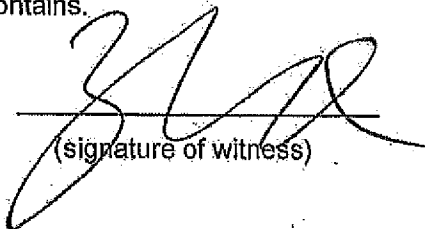

Ta-Ya CHU

Declaration by Witness

I, ZHILI ZHANG, whose full post office address is
22 Norwood crescent, Ottawa, ON K2T 1J2
say:

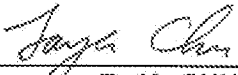
That I was personally present and did hear and see, Ta-Ya CHU, who is
personally known to me duly sign the above Confirmatory Assignment and confirm
having read and understood all that it contains.


(signature of witness)


(signature of witness)

(signature of witness)

Executed on Sept. 18. 2018

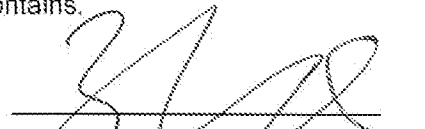


Ta-Ya CHU

Declaration by Witness

I, ZHILI ZHANG, whose full post office address is
22 Norwood crescent, Ottawa, ON K2T 1T2
say:

That I was personally present and did hear and see, **Ta-Ya CHU**, who is personally known to me duly sign the above Confirmatory Assignment and confirm having read and understood all that it contains.



(signature of witness)