

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TA-YA CHU	07/30/2018
CHRISTOPHE PY	07/30/2018
YE TAO	07/30/2018
ZHIYI ZHANG	07/30/2018
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:	15740550
CORRESPONDENCE DATA	
Fax Number:	(216)642-8826
<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>	
Phone:	2166423342
Email:	whvipgroup@wegmanlaw.com
Correspondent Name:	JASON A. WORGULL
Address Line 1:	WEGMAN, HESSLER & VANDERBURG
Address Line 2:	6055 ROCKSIDE WOODS BOULEVARD, SUITE 200
Address Line 4:	CLEVELAND, OHIO 44131
ATTORNEY DOCKET NUMBER:	170262 004P2
NAME OF SUBMITTER:	JASON A. WORGULL
SIGNATURE:	/Jason A. Worgull/
DATE SIGNED:	10/12/2018
Total Attachments: 4	

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CONFIRMATORY ASSIGNMENT

WHEREAS, we, Ta-Ya CHU, a citizen of CANADA residing at 1655 Country Walk Drive, Ottawa, Ontario K1C 8E2, CANADA, Christophe PY, a citizen of CANADA residing at 11 Arundel Avenue, Ottawa, Ontario K1K 0B1, CANADA, Ye TAO, a citizen of CANADA residing at 1671 Pl des Ravins, Ottawa, Ontario K1C 6H5, CANADA, Zhiyi ZHANG, a citizen of CANADA residing at 22 Norgold Crescent, Ottawa, Ontario K2T 1J1, CANADA and Afshin DADVAND, a citizen of CANADA residing at 2480 Benny Crescent, Apt 602, Montreal, Quebec H4B 2R1, 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

METHOD OF PRINTING ULTRANARROW-GAP LINES

filed in Taiwan on July 1, 2016 under Patent Application No. 105120939, and in the World Intellectual Property Office on June 30, 2016 under International PCT Patent Application No. PCT/CA2016/050768 all of which claims priority to U.S. Provisional Patent Application No. 62/188,563 filed on July 3, 2015 (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, Ta-Ya CHU, Christophe PY, Ye TAO, Zhiyi ZHANG and Afshin

DADVAND hereby 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 July 30, 2018


Ta-Ya CHU

Declaration by Witness

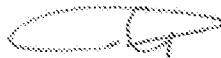
I, Ye TAO, whose full post office address is
1671 Place des Ravins, Ottawa, ON, K1C 6H5
say:

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)

2015-043

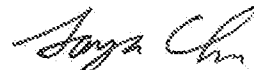
Executed on July 30, 2018


Christophe PY


Declaration by Witness

I, TA-TA CHU, whose full post office address is
1655 Country Walk Drive, Ottawa, ON, K1C8E2, Canada
say:

That I was personally present and did hear and see, **Christophe PY**, 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)


Executed on July 30, 2018


Ye TAO

Declaration by Witness

I, TA-TA CHU, whose full post office address is
1655 Country Walk Drive, Ottawa, ON, K1C8E2, CANADA
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 of witness)

2015-043

Executed on July 30. 2018


Zhiyi ZHANG

Declaration by Witness

I, TA-YA CHU, whose full post office address is
1655 Country Walk Dr. Ottawa, ON. K1C 8R2, Canada
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.


(signature of witness)

Executed on _____

Afshin DADVAND

Declaration by Witness

I, _____, whose full post office address is

say:

That I was personally present and did hear and see, **Afshin DADVAND**, 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)

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