

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ABRAR R.E. ALRASHED	09/12/2017
CATHLEEN M. CRUDDEN	09/07/2017
J. HUGH HORTON	12/18/2018
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16305915
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NAME OF SUBMITTER:	NANCY MCINTYRE
SIGNATURE:	/Nancy McIntyre/
DATE SIGNED:	04/30/2019
Total Attachments: 4	
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CONFIRMATORY PATENT ASSIGNMENT

This Confirmatory Patent Assignment is made from **Abrar R.E. ALRASHED** of 1032 King Street West, Apartment 708, Kingston, Ontario, K7M 9G2, Canada; **Cathleen M. CRUDDEN** of 600 Fay Street, Kingston, Ontario, K7M 4V1, Canada; and **J. Hugh HORTON** of 49-1 Place D'Armes, Kingston, Ontario, K7K 6S2, Canada; hereinafter referred to as "ASSIGNORS", to **Queen's University at Kingston**, whose complete address is Kingston, Ontario, K7L 3N6, Canada; hereinafter referred to as "ASSIGNEES", have previously assigned all right, title and interest, including priority rights, in and to United States Patent Application Serial No. 62/344,001 filed on June 1, 2016 and entitled **Etching Metal Using N-Heterocyclic Carbenes** to Queen's University at Kingston; and ASSIGNORS are inventors of the Invention described and set forth in

International Patent Application Serial No. PCT/CA2017/050665 filed on June 1, 2017 entitled **Etching Metal Using N-Heterocyclic Carbenes**; and

WHEREAS, Queen's University at Kingston, whose complete address is Kingston, Ontario, K7L 3N6, Canada, hereinafter referred to as "ASSIGNEE", is desirous of acquiring an interest in the Invention and patent application and in any Letters Patent and Registration which may be granted thereon, and in any patent application and Letters Patent and Registration claiming priority from the same;

For the sum of One Dollar (\$1.00) and other good and valuable consideration, receipt and sufficiency of which is hereby acknowledged by ASSIGNORS, ASSIGNORS do hereby assign to ASSIGNEE all right, title, and interest, including priority rights, in and to the Invention and all subject matter disclosed in the application and to all foreign counterparts thereof, and in and to any Letters Patent and Registration which may hereafter be granted thereon, and in and to any patent application claiming priority from the same, in Canada, the United States, and all countries throughout the world. The right, title, and interest is to be held and enjoyed by ASSIGNEE and ASSIGNEE's successors and assigns as fully and exclusively as it would have been held and enjoyed by ASSIGNORS had this Assignment not been made, for the full term of any Letters Patent and Registration which may be granted thereon, or of any division, renewal, continuation, substitution, conversion, reissue, prolongation, or extension thereof.

ASSIGNORS further agree that they will, without charge to ASSIGNEE, but at ASSIGNEE's expense, (a) cooperate with ASSIGNEE in the prosecution of patent applications and foreign counterparts on the Invention, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as ASSIGNEE lawfully may request to obtain or maintain Letters Patent and Registration for the Invention in any and all countries, and to vest title thereto in ASSIGNEE, or ASSIGNEE's successors and assigns.

ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America, and the empowered officials of all other governments, to issue any and all Letters Patent and Registration for said Invention or resulting from said application, or from any division, renewal, continuation, substitution, conversion, reissue, prolongation, or extension thereof, to ASSIGNEE, as ASSIGNOR'S' sole assignee.

In testimony whereof I have hereunto set my hand:

this 12 day of Sept 2017

Abrar
Abrar R.E. Alrashed

CERTIFICATE

City of Kingston)
Province of Ontario)


On this 12th day of September 2017 appeared before me in person the above **Abrar R.E. Alrashed** and acknowledged the above to be her signature, and that she signed and delivered the above instrument as her voluntary act and deed for the purposes herein set forth.

Angela Lyon
Angela Lyon
Notary Public
Province of Ontario

Angela Patricia Lyon, Notary Public, Province of Ontario, Limited to
the attestation of instruments and the taking of affidavits, for Queen's
University at Kingston and its subsidiaries, associated companies and affiliates.
Expires April 23, 2020

In testimony whereof I have hereunto set my hand:

this 7 day of September 2017


Cathleen M. Crudden

CERTIFICATE

City of Kingston)
Province of Ontario)

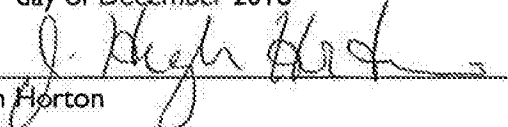
On this 7th day of September 2017 appeared before me in person the above **Cathleen M. Crudden** and acknowledged the above to be her signature, and that she signed and delivered the above instrument as her voluntary act and deed for the purposes herein set forth.


Angela Lyon
Notary Public
Province of Ontario

Angela Patricia Lyon, Notary Public, Province of Ontario, limited to
the attestation of instruments and the taking of affidavits, for Queen's
University of Kingston and its subsidiaries, associated companies and affiliates.
Expires April 21, 2020

In testimony whereof I have hereunto set my hand:


this 18th day of December 2018


J. Hugh Horton

CERTIFICATE

City of Kingston)
Province of Ontario)

On this 18th day of December 2018 appeared before me in person the above **J. Hugh Horton** and acknowledged the above to be his signature, and that he signed and delivered the above instrument as his voluntary act and deed for the purposes herein set forth.


Angela Lyon
Notary Public
Province of Ontario

*Angela Patricia Lyon, Notary Public, Province of Ontario, limited to
the attestation of instruments and the taking of affidavits, for Queen's
University at Kingston and its subsidiaries, associated companies and affiliates.
Expires April 21, 2020*