

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Geoffrey PETIT</td> <td>04/02/2012</td> </tr> <tr> <td>Mehrdji HEMATI</td> <td>04/02/2012</td> </tr> <tr> <td>Jean-Marc ROUSSEAU</td> <td>05/02/2012</td> </tr> </tbody> </table>		Name	Execution Date	Geoffrey PETIT	04/02/2012	Mehrdji HEMATI	04/02/2012	Jean-Marc ROUSSEAU	05/02/2012
Name	Execution Date								
Geoffrey PETIT	04/02/2012								
Mehrdji HEMATI	04/02/2012								
Jean-Marc ROUSSEAU	05/02/2012								
RECEIVING PARTY DATA									
Name:	RIO TINTO ALCAN INTERNATIONAL LIMITED								
Street Address:	1188 Sherbrooke Street West								
City:	Montreal								
State/Country:	CANADA								
Postal Code:	H3A 3G2								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13508817</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13508817				
Property Type	Number								
Application Number:	13508817								
CORRESPONDENCE DATA									
Fax Number:	(312)463-5001								
Phone:	3124635502								
Email:	ngriggs@bannerwitcoff.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	Banner & Witcoff, Ltd.								
Address Line 1:	10 South Wacker Drive, Suite 3000								
Address Line 4:	Chicago, ILLINOIS 60606								
ATTORNEY DOCKET NUMBER:	007035.00159								
NAME OF SUBMITTER:	Nathalie Griggs								
Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif									

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ASSIGNMENT

Attorney Docket No.: 007035.00159  
Client Reference No.: IR7429 TM/CD  
Serial Number: 13/508817  
Filing Date: October 19, 2010 (PCT Filing Date)  
Inventors: PETIT Geoffrey / HEMATI Mehrdji / ROUSSEAU Jean-Marc

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned hereby assign to:

**RIO TINTO ALCAN INTERNATIONAL LIMITED**

having a place of business at 1188 Sherbrooke Street West, Montreal, Quebec H3A 3G2 (CA), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

**POTENTIAL FLUIDIZATION DEVICE FOR CONVEYING POWDER MATERIALS IN A HYPERDENSE BED**

and identified as Attorney Docket No. 007035.00159 in the offices of Banner & Witcoff, Ltd. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or

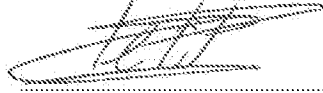
BANNER & WITCOFF, LTD.  
Ten South Wacker Drive  
Chicago, Illinois 60606  
(312) 463-5000

Attorney Docket No 007035.00159

transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Date: 2012/04/02

Signature: \_\_\_\_\_

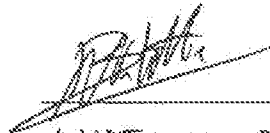


PETIT Geoffrey

WITNESS:

Date: 2012/04/02

Signature: \_\_\_\_\_

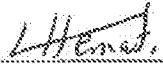


Name: \_\_\_\_\_

WARTELLE Benoit

Date: 2012/04/02

Signature: \_\_\_\_\_



HEMATI Mehrdji

WITNESS:

Date: 2012/04/02

Signature: \_\_\_\_\_

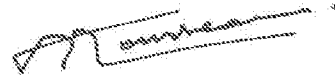


Name: \_\_\_\_\_

LE BOLAY Madeline

Date: 2012/05/02

Signature: \_\_\_\_\_



ROUSSEAUX Jean-Marc

WITNESS:

Date: 2012/05/02

Signature: \_\_\_\_\_



Name: \_\_\_\_\_

STEVEN HEALY