

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HIDEYUKI TAKAHASHI	03/08/2019
RECEIVING PARTY DATA	
Name:	JX NIPPON MINING & METALS CORPORATION
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City:	TOKYO
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16338020
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NAME OF SUBMITTER:	WILLIAM BAK
SIGNATURE:	/William Bak/
DATE SIGNED:	03/29/2019
Total Attachments: 2	
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OGOSH376USA

ASSIGNMENT

WHEREAS, Hideyuki Takahashi is hereinafter referred to as the ASSIGNOR, that has invented and is the owner of an invention entitled "HIGH PURITY TUNGSTEN PENTACHLORIDE AND PRODUCTION METHOD THEREOF" said invention being fully set forth and described in the application for Letters Patent of the United States which has been prepared in connection with said invention, and which have been signed by ASSIGNOR; and

WHEREAS, JX Nippon Mining & Metals Corporation, a Japanese Corporation engaged in business at 1-2, Otemachi 1-chome, Chiyoda-ku, Tokyo, 100-8164 Japan, hereinafter referred to as ASSIGNEE, is desirous of acquiring the said invention and any and all applications for Letters Patent and any and all Letters Patent of the United States and foreign countries which may be issued therefor;

NOW THEREFORE, THIS IS TO WITNESS, that in consideration of the sum of One Dollar (\$1.00) paid to ASSIGNOR by ASSIGNEE, the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR has sold, assigned and set over, and hereby does sell, assign and set over, unto ASSIGNEE, its successors and assigns, the entire right, title and interest for, to and within the United States and all foreign countries, in and to the aforesaid invention and in and to any and all application for Letters Patent and Letters Patent which may be issued therefor in the United States and in any and all foreign countries.

And ASSIGNOR hereby authorizes and requests the Commissioner of Patent and Trademarks to issue any and all Letters patent of the United States to ASSIGNEE, its successors and assigns, as the owner of all right, title and interest therein.

And for said consideration, it is hereby covenanted and agreed that at the request and expense of ASSIGNEE, its successors and assigns, ASSIGNOR will execute any further papers and do such other acts and things as may be necessary and proper to procure Letters Patent for said invention in the United States and in such foreign countries as ASSIGNEE, its successors and assigns may elect, and vest the full title thereto in ASSIGNEE, its successors and assigns.

And ASSIGNOR hereby authorizes and directs their attorneys to insert, in the space provided below, the serial number and filing date of the aforesaid application for Letters Patent of the United States when the same shall have been made known to them by the United States Patent and Trademark Office.

IN WITNESS WHEREOF, this Assignment has been executed on the date
accompanying my signature.

Hideyuki Takahashi
Hideyuki Takahashi

March 8, 2019
(Date)

Application for United States Letters patent Serial Number 16/338020,
filed March 29, 2019.

Howson & Howson LLP
HOWSON & HOWSON LLP