

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TAKUTO WATANABE	04/30/2020
KATSUYUKI TSUCHIDA	04/30/2020
RECEIVING PARTY DATA	
Name:	JX NIPPON MINING & METALS CORPORATION
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State/Country:	JAPAN
Postal Code:	100-8164
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16764472
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NAME OF SUBMITTER:	TERRYENCE F. CHAPMAN
SIGNATURE:	/Terryence Chapman/
DATE SIGNED:	05/18/2020
Total Attachments: 2	
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United States (Sole or Joint)
(Excluding Foreign Rights)

Docket No.: 4700.P0431US
U.S. Serial No.: 16/764 472
U.S. Filing Date: May 15, 2020

ASSIGNMENT

WHEREAS, I/We, (1)Takuto WATANABE and (2)Katsuyuki TSUCHIDA

residing at (1)Kitaibaraki-shi, Ibaraki, Japan and
(2)Kitaibaraki-shi, Ibaraki, Japan

have invented certain new and useful improvements in

SEMICONDUCTOR SUBSTRATE AND MANUFACTURING METHOD THEREFOR

for which an application for United States Letters Patent was filed
on October 25, 2018 and received PCT Application
No.PCT/JP2018/039741.

WHEREAS, JX NIPPON MINING & METALS CORPORATION

having a place of business at 1-2,Otemachi 1-chome,Chiyoda-ku,Tokyo
100-8164 Japan

hereinafter called the "Assignee", is desirous of acquiring the
entire right, title and interest in and to said invention and in and
to any Letters Patent that may be granted therefor, in the United
States and its territorial possessions.


NOW, THEREFORE, in consideration of the sum of One Dollar
(\$1.00) and other valuable considerations, the receipt whereof is
hereby acknowledged, I/we have sold, assigned and transferred, and
by these presents do sell, assign, transfer and confirm in and to
said Assignee my/our full and exclusive right to the said invention
in the United States and its territorial possessions and my/our
entire right, title and interest in and to said application and any
and all Letters Patent which may be granted therefor in the United
States and its territorial possessions and in and to any and all
divisions, reissues, continuations and extensions thereof.

I/We hereby authorize and request the Patent Office Officials
in the United States to issue any and all of said Letters Patent,
when granted, to said Assignee for the sole use and behoof of the
said Assignee, its successors and assigns.

I/We hereby authorize and request the attorneys of record to
insert in this Assignment the filing date and serial number of the
above-referenced United Sates application when officially known.

IN TESTIMONY WHEREOF, I/We have hereunto set my/our hand(s).

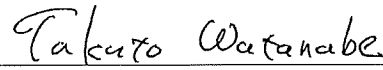
Witnessed by:



Takeo OKABE

Inventors:

Date:



April 30,
2020

Takuto WATANABE



April 30,
2020

Katsuyuki TSUCHIDA