

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT7685434

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|------------------------------|--------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | NUNC PRO TUNC ASSIGNMENT |
| EFFECTIVE DATE: | 11/11/2022 |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------------------|----------------|
| SUMITOMO ELECTRIC INDUSTRIES, LTD. | 12/05/2022 |

RECEIVING PARTY DATA

| | |
|------------------------|------------------------------------|
| Name: | MITSUI MINING & SMELTING CO., LTD. |
| Street Address: | 1-11-1 OSAKI, SHINAGAWA-KU |
| City: | TOKYO |
| State/Country: | JAPAN |
| Postal Code: | 1418584 |

PROPERTY NUMBERS Total: 11

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15100174 |
| Application Number: | 14787751 |
| Application Number: | 15928769 |
| Application Number: | 15520933 |
| Application Number: | 15119258 |
| Application Number: | 15122448 |
| Application Number: | 16282104 |
| Application Number: | 16313584 |
| Application Number: | 16347152 |
| Application Number: | 16468735 |
| Application Number: | 16486906 |

CORRESPONDENCE DATA

Fax Number: (703)739-2815

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.

Email: recordals@clarivate.com

Correspondent Name: CPA GLOBAL

Address Line 1: CASTLE STREET , LIBERATION HOUSE

Address Line 4: ST HELIER, JERSEY, JERSEY JE1 1BL

| | |
|---|-------------------|
| NAME OF SUBMITTER: | PETAR JOVANOVIC |
| SIGNATURE: | IPR/PJ/NGB Mitsui |
| DATE SIGNED: | 12/09/2022 |
| Total Attachments: 2 source=US Assignment#page1.tif source=US Assignment#page2.tif | |

UNITED STATES OF AMERICA
ASSIGNMENT

WHEREAS, SUMITOMO ELECTRIC INDUSTRIES, LTD. ("ASSIGNOR"), a Corporation organized under the laws of JAPAN, with a place of business at 5-33, KITAHAMA 4-CHOME, CHUO-KU OSAKA-SHI 541-0041 JAPAN, owns the United States Patent(s) (the "Patent(s)") listed on the attached Schedule A; and

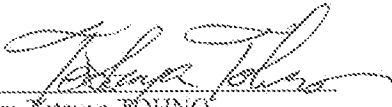
WHEREAS, Mitsui Mining & Smelting Co., Ltd. ("ASSIGNEE"), a Corporation organized under the laws of JAPAN, with a place of business at 1-11-1 Osaka, Shinagawa-ku, Tokyo, Japan, desires to acquire all rights to the Patent(s);

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other valuable consideration, the receipt of which ASSIGNOR acknowledges, ASSIGNOR has sold, assigned, transferred, and set over, and does, by this Assignment, sell, assign, transfer, and set over unto ASSIGNEE, all rights to the Patent(s), including reissues and extensions, to be held and enjoyed by ASSIGNEE, its successors, assigns, and legal representatives, for ASSIGNEE's own use and benefit and for the use and benefit of its successors, assigns, and legal representatives, to the end of the term(s) for which the Patent(s) has/have been granted or may be reissued or extended, as fully and entirely as the Patent(s) would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made; together with all claims for profits and damages by reason of past infringement, with the right to sue for and collect the same for the use and benefit of ASSIGNEE, its successors, assigns, and legal representatives.

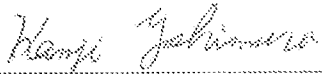
This Assignment is deemed to have become effective as from: **November 11, 2022**

IN WITNESS WHEREOF, ASSIGNOR and ASSIGNEE have caused this Assignment to be executed by its duly authorized officer or representative on the date(s) indicated below.

SUMITOMO ELECTRIC INDUSTRIES, LTD.

By: 
Name: Patsuya FOHNO
Title: General Manager, Intellectual Property Department
Date: December 5, 2022

Mitsui Mining & Smelting Co., Ltd.

By: 
Name: Takeshi NOU Kanji YOSHIMURA
Title: President and Representative Director General Manager, intellectual Property Department
Date: December 8, 2022

Schedule

| Country | Application Number | IP Grant Number |
|---------|--------------------|-----------------|
| USA | 15100174 | 10087517 |
| USA | 14787751 | 9957604 |
| USA | 15928769 | 10480060 |
| USA | 15520933 | 10655213 |
| USA | 15119258 | 10192994 |
| USA | 15122448 | 10475631 |
| USA | 16282104 | 10811238 |
| USA | 16313584 | 10822276 |
| USA | 16347152 | 10894744 |
| USA | 16468735 | 11024744 |
| USA | 16485906 | 11492694 |