PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| BRIAN C. BERKE | 06/07/2019 |
| FRANK DURKAC | 06/07/2019 |
| WILLIAM J. MOLTZ | 06/07/2019 |

RECEIVING PARTY DATA

| Name: | HITACHI RAIL STS USA, INC. | |
|-----------------|----------------------------|--|
| Street Address: | 1000 TECHNOLOGY DRIVE | |
| City: | PITTSBURGH | |
| State/Country: | PENNSYLVANIA | |
| Postal Code: | 15219-3120 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16415350 |

CORRESPONDENCE DATA

Fax Number: (412)566-6099

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.

Phone: 412-566-6038

Email: ipmail@eckertseamans.com

ECKERT SEAMANS CHERIN & MELLOTT, LLC **Correspondent Name:**

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| ATTORNEY DOCKET NUMBER: | 283359-00557 US | | |
|-------------------------|--------------------------|--|--|
| NAME OF SUBMITTER: | STEPHEN A. BUCCHIANERI | | |
| SIGNATURE: | /STEPHEN A. BUCCHIANERI/ | | |
| DATE SIGNED: | 06/12/2019 | | |

Total Attachments: 4

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PATENT REEL: 049444 FRAME: 0611

ASSIGNMENT

WHEREAS, We, BRIAN C. BERKE, residing at 4319 Beauland Drive, Allison, in the County of Allegheny, Commonwealth of Pennsylvania 15101; FRANK DURKAC, residing at 323 Dirkshire Court, Mars, in the County of Butler, Commonwealth of Pennsylvania 16046; and WILLIAM J. MOLTZ, residing at 8194 Brittany Place, Pittsburgh, in the County of Allegheny, Commonwealth of Pennsylvania 15237, respectively, have invented certain new and useful improvements in "NON-POWERED SHUNTING AND TRACK CIRCUIT DISCONNECT MECHANISM FOR RAILWAY SWITCH MACHINE, RAILWAY SWITCH MACHINE AND RAILWAY SWITCHING SYSTEM INCLUDING SAME", for which we filed United States Provisional Patent Application Serial No. 62/673,392, on May 18, 2018; United States Patent Application Serial No. 16/415,350, on May 17, 2019; and International (PCT) Patent Application Serial No. PCT/US19/032818, on May 17, 2019 (collectively the "Applications"); and

AND WHEREAS, HITACHI RAIL STS USA, INC., a Delaware Corporation, having a place of business at 1000 Technology Drive, Pittsburgh, Pennyslvania 15219-3120, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said applications and the inventions and improvements therein disclosed;

NOW, THEREFORE, in consideration of One (\$1.00) Dollar and other good and valuable consideration paid to us by said assignee, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title, and interest in and to said applications and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, renewals, and/or extensions thereof including all priority rights under the International Convention associated therewith for each country and the Union, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said applications, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or

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enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

| EXECUTED JUNE 7 | 2019. |
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| MIRh | |
| BRIAN C. BERKE | |
| Commonwealth of Pennsylvania | : : SS: |
| County of Allegheny | A. \$. (|

Before me, a Notary Public in and for the said County and Commonwealth, personally appeared BRIAN C. BERKE, who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this Z day of Lex., 2019.

Notary Public
My Commission Expires: Nov. 18, 2022
(SEAL)

Commonwealth of Pennsylvania - Notary Seat Denise L. Holland, Notary Public Allegheny County My commission expires November 18, 2022 Commission number 1073339

Member, Pennsylvania Association of Notaries

| EXECUTED JUNE 7 | 2019. |
|---|---|
| D.OQQ. | |
| FRANK DURKAC | |
| Commonwealth of Pennsylvania County of Butler Allegheny | ; ; SS: |
| Before me, a Notary Public appeared FRANK DURKAC, who foregoing assignment and acknowledge. | in and for the said County and Commonwealth, personally a acknowledged that he is the person who executed the ledged it to be his free and voluntary act and deed. ial scal this 744 day of June , 2019. |
| Megan Ordios | |
| Notary Public | 94 - 304 924 |
| My Commission Expires: 10 -1 | |
| My Commission Expires: 10 -1 (SEAL) | <u>5.22</u> |

| EXECUTED June 74 | 4, 2019. |
|------------------------------|---------------|
| William J. Mrs | d |
| WILLIAM J. MOŁPŹ | ď |
| Commonwealth of Pennsylvania | ; 00- |
| County of Allegheny | * 5 0. |

Before me, a Notary Public in and for the said County and Commonwealth, personally appeared WILLIAM J. MOLTZ, who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

| | Witness my hand a | nd notarial seal th | is <i>74</i> 4 | day of | L.Jane | , 2019 |
|-------|--------------------|---|----------------|--------|--------|--------------------------|
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| Notar | y Public | engeneral i e forestend statistics and | | | | |
| My C | ommission Expires: | NOV. 18, Z | 022 | | | |
| (SEA) | 5) | | | | | |

Commonwealth of Pennsylvenie - Notsry Seal Denise L. Holland, Notsry Public Allegheny County My commission expires November 18, 2022 Commission number 1073338

Mamber, Pennsylvania Association of Notaries