

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT5437264

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JERRY W. VANDE SANDE	12/10/2018
AUBRA D. MCKISIC	12/10/2018
JOSEPH T. FLOAT	12/12/2018
MICHAEL JAMES MADDEN	12/14/2018
JOSEPH L. GAGLIARDINO	12/12/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TRINITY INDUSTRIES, INC.
<b>Street Address:</b>	2525 STEMMONS FREEWAY
<b>City:</b>	DALLAS
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	75207-2401
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16216653
<b>CORRESPONDENCE DATA</b>	
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<b>Phone:</b>	214.953.6500
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<b>Address Line 4:</b>	DALLAS, TEXAS 75201-2980
<b>ATTORNEY DOCKET NUMBER:</b>	091078.2255
<b>NAME OF SUBMITTER:</b>	ELIZABETH TURLO
<b>SIGNATURE:</b>	/Elizabeth Turlo/
<b>DATE SIGNED:</b>	03/23/2019
<b>Total Attachments: 6</b>	

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**PATENT**

**REEL: 048681 FRAME: 0315**

1 of 6

**ASSIGNMENT**

**WHEREAS**, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and

**WHEREAS**, **Trinity Industries, Inc.** (hereinafter referred to as "Assignee"), a Delaware corporation, with an address of 2525 Stemmons Freeway, Dallas, Texas 75207-2401, desires to acquire my entire right, title and interest in and to the invention, and in and to said application and any Letters Patent that may issue thereon;

**NOW, THEREFORE**, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to Assignee.

I also assign to Assignee, all right, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

I will communicate to Assignee any facts known to me respecting any improvements; and, at the expense of Assignee, I will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

ATTORNEY DOCKET NO.  
091078.2235

ASSIGNMENT

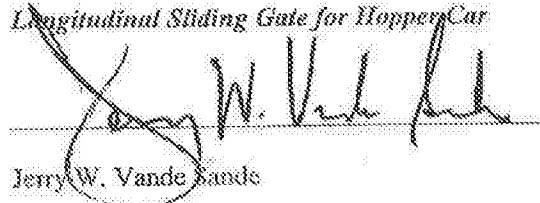
2 of 6

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Title of Invention:

*Longitudinal Sliding Gate for Hopper Car*

Signature of Inventor:



Inventor's Name:

Jerry W. Vande Sande

Residence (City, State):

Dallas, Texas

Date Assignment Executed:

12-10-18

ATTORNEY DOCKET NO.  
091078.2255

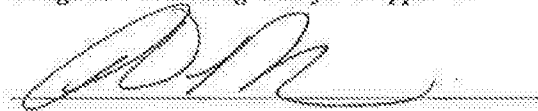
ASSIGNMENT

3 of 6

Title of Invention:

*Longitudinal Sliding Gate for Hopper Car*

Signature of Inventor:



Inventor's Name:

Aubra D. McKisic

Residence (City, State):

Flower Mound, Texas

Date Assignment Executed:

12/10/18

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PATENT  
REEL: 048681 FRAME: 0318

ATTORNEY DOCKET NO.  
091078.2255

ASSIGNMENT

4 of 6

Title of Invention:

*Longitudinal Sliding Gate for Hopper Car*

Signature of Inventor:



Inventor's Name:

Joseph T. Flgar

Residence (City, State):

Manor, Pennsylvania

Date Assignment Executed:

12-12-16

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091078.2255

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5 of 6

Title of Invention:

*Longitudinal Sliding Gate for Hopper Car*

Signature of Inventor:



Inventor's Name:

Michael James Madden

Residence (City, State):

Pittsburgh, Pennsylvania

Date Assignment Executed:

12/14/10

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091078.2255

ASSIGNMENT

6 of 6

Title of Invention:

*Longitudinal Sliding Gate for Hopper Car*

Signature of Inventor:



Inventor's Name:

Joseph L. Gagliardino

Residence (City, State):

Oakdale, Pennsylvania

Date Assignment Executed:

*12-12-78*

Active 32107150