PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5472813

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
JAC OPERATIONS, INC.	04/12/2019

RECEIVING PARTY DATA

Name:	BMO HARRIS BANK, N.A.
Street Address:	111 WEST MONROE
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60603

PROPERTY NUMBERS Total: 32

Property Type	Number
Patent Number:	6679187
Patent Number:	6837169
Patent Number:	6405658
Patent Number:	6601522
Patent Number:	6769366
Patent Number:	7094013
Patent Number:	6330863
Patent Number:	7478599
Patent Number:	7824140
Patent Number:	7832340
Patent Number:	7954437
Patent Number:	8342105
Patent Number:	8757067
Patent Number:	9669845
Patent Number:	8640631
Patent Number:	8950341
Patent Number:	9387864
Patent Number:	9096238
Patent Number:	9862393
Patent Number:	10017191

PATENT REEL: 048874 FRAME: 0787

505426022

Property Type	Number
Application Number:	14313969
Application Number:	15187686
Application Number:	16031410
Application Number:	15420075
Application Number:	15438858
Application Number:	15615748
Application Number:	15715578
Application Number:	62770284
Application Number:	62655330
Application Number:	62641614
Application Number:	62650472
Application Number:	62658527

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	11569-30290
NAME OF SUBMITTER:	DUSAN CLARK
SIGNATURE:	/Dusan Clark/
DATE SIGNED:	04/12/2019

Total Attachments: 5

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GRANT OF A SECURITY INTEREST -- PATENTS

This Patent Security Agreement (this "Patent Security Agreement") is made as of April 12, 2019, by JAC OPERATIONS, INC. (the "Grantor"), in favor of BMO HARRIS BANK, N.A., in its capacity Lender (together with its successors and permitted assigns in such capacity, the "Grantee").

WHEREAS, the Grantor holds all right, title and interest in the letter patents, design patents and utility patents listed on the attached Schedule A, which patents are issued or applied for in the United States Patent and Trademark Office (the "Patents");

WHEREAS, the Grantor has entered into a Credit and Security Agreement, dated April 12, 2019 (as amended, restated, supplemented, modified or otherwise changed from time to time, the "**Credit and Security Agreement**"), by and among the Grantor and the Grantee; and

WHEREAS, pursuant to the Credit and Security Agreement, the Grantor has granted to the Grantee for the benefit of the Secured Parties (as defined in the Credit and Security Agreement), a continuing security interest in all right, title and interest of the Grantor in, to and under the Patents and the applications and registrations thereof, and all proceeds thereof, including, without limitation, any and all causes of action which may exist by reason of infringement thereof and any and all damages arising from past, present and future violations thereof (the "Collateral"), to secure the payment, performance and observance of the Obligations (as defined in the Credit and Security Agreement).

NOW, THEREFORE, as collateral security for the payment, performance and observance of all of the Obligations, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor does hereby grant to the Grantee and grant to the Grantee for the benefit of the Secured Parties, a continuing security interest in the Collateral to secure the prompt payment, performance and observance of the Obligations.

All capitalized terms used but not otherwise defined herein have the meanings given to them in the Credit and Security Agreement.

The security interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interest granted to the Grantee pursuant to the Credit and Security Agreement and each Grantor hereby acknowledges and agrees that the rights and remedies of the Grantee with respect to the security interest in the Patent granted hereby are more fully set forth in the Credit and Security Agreement. In the event of any conflict between this Patent Security Agreement and the Credit and Security Agreement, the Credit and Security Agreement shall control.

This Patent Security Agreement may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Delivery of an executed counterpart by facsimile or electronic mail shall be equally effective as delivery of an original executed counterpart.

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IN WITNESS WHEREOF, the Grantor has caused this Patent Security Agreement to be duly executed by its officer thereunto duly authorized as of the date first set forth above.

JAC OPERATIONS, INC.

Name: Joseph J. Maliekel

Title: Vice President and Controller

SCHEDULE A TO GRANT OF A SECURITY INTEREST

Registered Patents

Patent Number	Description	Issue Date
6,679,187	Slab/Coil - 200107	01/20/2004
6,837,169	End Door Structure for an Aluminum Vehicle Carrier – 0302	01/04/2005
6,405,658	Manual Discharge Door Operating System for a Hopper Car with Lever (Uniflood) - 200003	06/18/2002
6,601,522	Top Chord Structure – 200101	08/05/2003
6,769,366	One Piece Center Sill - 970003	08/03/2004
7,094,013	Aluminum Vehicle Carrier Railcar - 200301	08/22/2006
6,330,863	Railroad Car Tub - 200001	12/18/2001
7,478,599	Railroad Car Having Cold Formed Center Sill (CIP) - 990015	01/20/2009
7,824,140	Aluminum Vehicle Carrier Railcar – 200301C	11/02/2010
7,832,340	Hopper Railcar with Automatic Individual Door - 0601	11/16/2010
7,954,437	RailroadWellCar w Open Truss Sides-0701	06/07/2011
8,342,105	Open Top Hopper Railcar with Lading Shedding Top Chord and Corner Cap and Integrated Door Operating Controls with Manual Override - 0803	01/01/2013
8,757,067	RailroadWellCar w Open Truss Sides-0701CIP	06/24/2014
9,669,845	Open Top Hopper Railcar with Lading Shedding Top Chord and Corner Cap and Integrated Door Operating Controls with Manual Override -0803C	06/06/2017
8,640,631	Side Contoured Open top Hopper Railcar with Biased Door Seal and Enlarged contoured Ind Door-0903	03/06/2014
8,950,341	Multi-Unit Intermodal Railroad Well Car With Safety Platform and Handbrake-1101	02/10/2015

Patent Number	Description	Issue Date
9,387,864	Transverse Through CoilCar With Modular Though Forming Assemblies and Method of Forming Same 1201	07/12/2016
9,096,238	Side Contoured Open top Hopper Railcar with Biased Door Seal a;nd Enlarged contoured Ind Door-0903C	08/04/2015
9,862,393	Side Contoured Open top Hopper Railcar with Biased Door Seal a;nd Enlarged contoured Ind Door-0903C2	01/09/2018
10,017,191	Gondola Car Clean-Out Door - 1301	07/10/2018

Patent Applications

Application Number	Description	Application Date
14/313,969	RailroadWellCar w Open Truss Sides-0701CIP2	06/24/2014
15/187,686	Multi-Unit Intermodal Railroad Well Car With Safety Platform and Handbrake-1101C2	02/20/2016
16/031,410	Gondola Car Clean-Out Door - 1301-CIP	07/10/2018
15/420,075 (62/287,944)	Coil Railcar with Floating Floor Sheet -1502	01/30/2017
15/438,858 (62/297,990)	Railroad Coupler Knuckle with External Weight Reducing Features -1504	02/22/2017
15/615,748	Open Top Hopper Railcar with Lading Shedding Top Chord and Corner Cap and Integrated Door Operating Controls with Manual Override -0803C-CIP	06/06/2017
15/715,578 (62/399,589)	Reinforced Aluminum Side Stake - 1603 (Railroad Car Internal Side Stake Reinforcement)	09/26/2017 (09/26/2016)
62/770,284	Railcar Having Cold Formed Center Sill with Stiffness Enhancing Structure and Method of Forming Same - 1401	11/21/2018
62/655,330	Coil Car with Vertical Trough Extensions - 1404	04/10/2018
62/641,614	Open Top Gondola Railcar - 1801	03/12/2018

Application Number	Description	Application Date
62/650,472	Method & Cast Components for Cold Formed - 1802 Center Sill Rail Car Modification Programs & Railcars Formed Thereby	03/30/2018
62/658,527	Solenoid Activation Remote for a Railroad Car Door	04/16/2018

RECORDED: 04/12/2019