

<b>TRADEMARK ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

ETAS ID: TM407115

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Senior Lien Intellectual Property Security Agreement

**CONVEYING PARTY DATA**

Name	Formerly	Execution Date	Entity Type
Forterra Pipe & Precast, LLC		10/25/2016	Limited Liability Company: DELAWARE
Forterra Pressure Pipe, Inc.		10/25/2016	Corporation: OHIO
Forterra Concrete Products, Inc.		10/25/2016	Corporation: IOWA
United States Pipe and Foundry Company, LLC		10/25/2016	Corporation: ALABAMA
Griffin Pipe Products Co., LLC		10/25/2016	Limited Liability Company: DELAWARE
Custom Fab, Inc.		10/25/2016	Corporation: FLORIDA
Bio Clean Environmental Services, Inc.		10/25/2016	Corporation: CALIFORNIA
Modular Wetland Systems, Inc.		10/25/2016	Corporation: CALIFORNIA

**RECEIVING PARTY DATA**

<b>Name:</b>	Credit Suisse AG, Cayman Islands Branch
<b>Street Address:</b>	11 Madison Avenue
<b>City:</b>	New York
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10010
<b>Entity Type:</b>	Bank: SWITZERLAND

**PROPERTY NUMBERS Total: 61**

Property Type	Number	Word Mark
<b>Registration Number:</b>	0993611	CEN-VI-RO
<b>Registration Number:</b>	1218861	STRESS-TITE
<b>Registration Number:</b>	1637384	SNAP RING
<b>Registration Number:</b>	1855776	PREMIER
<b>Serial Number:</b>	86436671	CROWNSPAN
<b>Serial Number:</b>	86646452	FORTERRA
<b>Serial Number:</b>	86684590	
<b>Serial Number:</b>	86646450	TERAVA

CH \$1540.00 0993611

Property Type	Number	Word Mark
Registration Number:	0735180	
Registration Number:	3947208	FAST FABRICATORS
Registration Number:	3923143	FAST FABRICATORS
Registration Number:	1358033	FIELD LOK
Registration Number:	2211343	FIELD LOK 350
Registration Number:	0926864	FLANGE-TYTE
Registration Number:	3645051	FULL FACE FLANGE-TYTE
Registration Number:	3413010	HP LOK
Registration Number:	2813594	MJ FIELD LOK
Registration Number:	3112733	MJ FIELD LOK
Registration Number:	3061160	MJ FIELD LOK
Registration Number:	3061161	MJ FIELD LOK
Registration Number:	1414630	PERMAFUSE
Registration Number:	1724982	POLYTHANE
Registration Number:	3765528	RING FLANGE-TYTE
Registration Number:	1547962	TR FLEX GRIPPER
Registration Number:	4317425	TR TELE FLEX
Registration Number:	1266141	TRIM TYTE
Registration Number:	1340059	TRIM TYTON
Registration Number:	0661920	TYTON
Registration Number:	0689360	TYTON
Registration Number:	0715983	TYTON
Registration Number:	1000063	TYTON
Registration Number:	1004188	TYTON
Registration Number:	0661552	TYTON JOINT
Registration Number:	1478262	U.S. PIPE
Registration Number:	0696636	USIFLEX
Registration Number:	0757356	USIFLEX
Registration Number:	1152887	USP
Registration Number:	0641265	USP
Registration Number:	4152490	VITCO
Registration Number:	1662197	XTRA FLEX
Registration Number:	4430102	U.S. PIPE FABRICATION
Registration Number:	4472238	U.S. PIPE FABRICATION
Registration Number:	4605977	NXT
Serial Number:	85642103	NXT
Serial Number:	86242587	TR-XTREME
Registration Number:	4339975	NXT

Property Type	Number	Word Mark
Registration Number:	3981436	SG-14
Registration Number:	1266864	TR FLEX
Registration Number:	2021937	TR FLEX
Registration Number:	2283075	GRIFFIN
Registration Number:	2283076	GRIFFIN-20
Registration Number:	3803494	TALON
Registration Number:	4427477	CUSTOM CF FAB
Registration Number:	4349110	SURROUND YOURSELF WITH PEOPLE YOU CAN TR
Registration Number:	4344428	QUALITY FABRICATIONS FOR THE WATERWORKS
Serial Number:	86753922	US-CUSTOM FAB
Serial Number:	87168529	URBAN POND
Serial Number:	86928483	URBAN POND
Serial Number:	85854254	MODULAR WETLANDS
Serial Number:	85420292	WETLANDMOD
Serial Number:	77120641	MODULAR WETLANDS

**CORRESPONDENCE DATA**

**Fax Number:** 9494754754

*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:** 949-451-3800

**Email:** skann@gibsondunn.com

**Correspondent Name:** Stephanie Kann

**Address Line 1:** 3161 Michelson Drive

**Address Line 2:** Gibson, Dunn & Crutcher LLP

**Address Line 4:** Irvine, CALIFORNIA 92612

<b>ATTORNEY DOCKET NUMBER:</b>	42473-00026
<b>NAME OF SUBMITTER:</b>	Stephanie Kann
<b>SIGNATURE:</b>	/stephanie kann/
<b>DATE SIGNED:</b>	11/30/2016

**Total Attachments: 27**

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## SENIOR LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT, dated as of October 25, 2016 (as amended, restated, amended and restated, supplemented or otherwise modified or replaced from time to time, this “IP Security Agreement”), is made by each of the signatories hereto (collectively, the “Grantors”) in favor of Credit Suisse AG, Cayman Islands Branch, as administrative agent and collateral agent (together with its successors in such capacities, the “Administrative Agent”) for the Secured Parties (as defined in the Credit Agreement referred to below).

WHEREAS, Forterra, Inc., a Delaware corporation (including its permitted successors, “Holdings”), and Forterra Finance, LLC, a Delaware limited liability company (including its permitted successors, the “Borrower”) have entered into a Senior Lien Term Loan Credit Agreement, dated as of October 25, 2016 (as amended, restated, amended and restated, supplemented or otherwise modified or replaced from time to time, the “Credit Agreement”), with the several banks and other financial institutions or entities from time to time party thereto as lenders and the Administrative Agent. Capitalized terms used and not defined herein have the meanings given such terms in the Credit Agreement.

WHEREAS, it is a condition precedent to the obligation of the Lenders to make their respective extensions of credit to the Borrower under the Credit Agreement that the Grantors shall have executed and delivered that certain Senior Lien Guarantee and Collateral Agreement, dated as of October 25, 2016, in favor of the Administrative Agent (as amended, restated, amended and restated, supplemented or otherwise modified or replaced from time to time, the “Guarantee and Collateral Agreement”).

WHEREAS, under the terms of the Guarantee and Collateral Agreement and subject to the limitations contained therein, the Grantors have granted to the Administrative Agent, for the benefit of the Secured Parties, a security interest in all of the Grantors’ right, title, and interest in and to certain Collateral, including certain of their Copyrights, Trademarks and Patents and have agreed as a condition thereof to execute this IP Security Agreement with respect to certain of their Copyrights, Trademarks and Patents in order to record the security interests granted therein with the United States Copyright Office or United States Patent and Trademark Office, as applicable (or any successor office or other applicable government registry).

NOW, THEREFORE, in consideration of the above premises, the Grantors hereby agree with the Administrative Agent, for the benefit of the Secured Parties, as follows:

SECTION 1 Grant of Security. Each Grantor hereby grants to the Administrative Agent, for the benefit of the Secured Parties, a security interest in all of such Grantor’s right, title and interest in and to the following (the “IP Collateral”), as collateral security for the prompt and complete payment and performance when due (whether at the stated maturity, by acceleration or otherwise) of such Grantor’s Obligations (as defined in the Guarantee and Collateral Agreement):

(a) (i) all United States and foreign copyrights, whether or not the underlying works of authorship have been published and whether as author, assignee, transferee or otherwise,

including but not limited to copyrights in software and databases, all Mask Works (as defined in 17 U.S.C. 901 of the U.S. Copyright Act) and all works of authorship, all right, title and interest to make and exploit all derivative works based on or adopted from works covered by such copyrights, and all copyright registrations, copyright applications, mask works registrations and mask works applications, and any renewals or extensions thereof, including each registration and application identified in Schedule 1, and (ii) the rights to print, publish and distribute any of the foregoing (“Copyrights”);

(b) all Copyright Licenses (as defined in the Guarantee and Collateral Agreement), to the extent such Grantor is not the granting party, including any of the foregoing identified in Schedule 1;

(c) (i) the right to sue or otherwise recover for any and all past, present and future Infringements (as defined in the Guarantee and Collateral Agreement) and misappropriations of any of the property described in (a) and (b) above, and (ii) all income, royalties, damages and other payments now and hereafter due and/or payable with respect to any of the property described in (a) and (b) above (the items described in (a), (b) and (c), collectively, the “Copyright Collateral”);

(d) (i) all United States, state and foreign trademarks, service marks, trade names, corporate names, company names, business names, fictitious business names, trade dress, trade styles, logos, or other indicia of origin or source identification, Internet domain names, trademark and service mark registrations, designs and general intangibles of like nature and applications for trademark or service mark registrations and any renewals thereof, including each registration and application identified in Schedule 2 (but excluding in all cases all intent-to-use United States trademark applications for which an amendment to allege use or statement of use has not been filed under 15 U.S.C. § 1051(c) or 15 U.S.C. § 1051(d), respectively, or if filed, has not been deemed in conformance with 15 U.S.C. § 1051(a) or examined and accepted, respectively, by the United States Patent and Trademark Office provided that upon such filing and acceptance, such intent-to-use applications shall be included in the definition of Trademarks) and (ii) the goodwill of the business connected with the use of, and symbolized by, each of the above (collectively, the “Trademarks”);

(e) all Trademark Licenses (as defined in the Guarantee and Collateral Agreement), to the extent such Grantor is not the granting party, including any of the foregoing identified in Schedule 2;

(f) (i) the right to sue or otherwise recover for any and all past, present and future Infringements (as defined in the Guarantee and Collateral Agreement) and misappropriations of any of the property described in (d) and (e) above, and (ii) all income, royalties, damages and other payments now and hereafter due and/or payable with respect to any of the property described in (d) and (e) above (items described in clauses (d), (e) and (f), collectively, the “Trademark Collateral”);

(g) (i) all United States and foreign patents, patent applications and patentable inventions, including each issued patent and patent application identified in Schedule 3, all certificates of invention or similar property rights and all registrations, recordings and pending

applications thereof, (ii) all inventions and improvements described and claimed therein and (iii) all reissues, divisions, reexaminations, continuations, continuations-in-part, substitutes, renewals, and extensions thereof, all improvements thereon (collectively, the “Patents”);

(h) all Patent Licenses (as defined in the Guarantee and Collateral Agreement), to the extent such Grantor is not the granting party, including any of the foregoing identified in Schedule 3; and

(i) (i) the right to sue or otherwise recover for any and all past, present and future Infringements (as defined in the Guarantee and Collateral Agreement) and misappropriations of any of the property described in (g) and (h) above, and (ii) all income, royalties, damages and other payments now and hereafter due and/or payable with respect to any of the property described in (g) and (h) above (items described in (f), (g) and (h), collectively, the “Patent Collateral”).

SECTION 2 Excluded Assets. Notwithstanding anything to the contrary in this IP Security Agreement, none of the Excluded Assets shall constitute IP Collateral.

SECTION 3 Recordation. Each Grantor authorizes and requests that the Register of Copyrights and Commissioner of Patents and Trademarks, as applicable, and any other applicable United States government officer record this IP Security Agreement.

SECTION 4 Execution in Counterparts. This IP Security Agreement may be executed in any number of counterparts (including by telecopy or other electronic transmission), 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.

SECTION 5 GOVERNING LAW. THIS IP SECURITY AGREEMENT AND ANY CLAIM, CONTROVERSY, DISPUTE OR CAUSE OF ACTION (WHETHER IN CONTRACT OR TORT OR OTHERWISE) BASED UPON, ARISING OUT OF OR RELATING TO THIS IP SECURITY AGREEMENT AND THE TRANSACTIONS CONTEMPLATED HEREBY SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.

SECTION 6 Conflict Provision. This IP Security Agreement has been entered into in conjunction with the provisions of the Guarantee and Collateral Agreement and the Credit Agreement. The rights and remedies of each party hereto with respect to the security interest granted herein are without prejudice to, and are in addition to those set forth in the Guarantee and Collateral Agreement and the Credit Agreement, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this IP Security Agreement are in conflict with the Guarantee and Collateral Agreement or the Credit Agreement, the provisions of the Guarantee and Collateral Agreement or the Credit Agreement, as applicable, shall govern.

SECTION 7 ABL Intercreditor Agreement Governs. Notwithstanding anything herein to the contrary, the Liens and security interests granted to the Administrative Agent, for the benefit of the Secured Parties pursuant to this Agreement, and the exercise of any right or remedy by the Administrative Agent and the other Secured Parties hereunder, in each case, with

respect to the Collateral and Liens securing any ABL Obligations are subject to the provisions of the ABL Intercreditor Agreement. In the event of any conflict or inconsistency between the provisions of the ABL Intercreditor Agreement and this Agreement with respect to the Collateral and Liens securing any ABL Obligations, the provisions of the ABL Intercreditor Agreement shall prevail. As used in this Section 7, "ABL Obligations" shall have the meaning given to such term in the ABL Intercreditor Agreement.


SECTION 8 Notice. Each party to this IP Security Agreement irrevocably consents to service of process in the manner provided for notices in Section 9.2 of the Guarantee and Collateral Agreement. Nothing in this IP Security Agreement or any other Loan Document will affect the right of any party to this Agreement to serve process in any other manner permitted by law.

*[signature pages follow]*

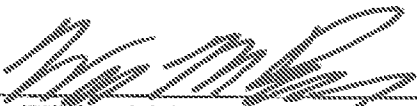


IN WITNESS WHEREOF, each of the undersigned has caused this IP Security Agreement to be duly executed and delivered as of the date first above written.

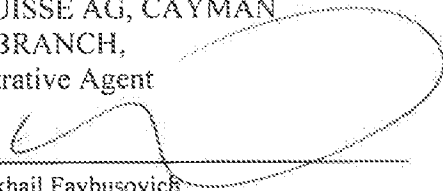
FORTERRA PIPE & PRECAST, LLC  
FORTERRA PRESSURE PIPE, INC.  
FORTERRA CONCRETE PRODUCTS, INC.

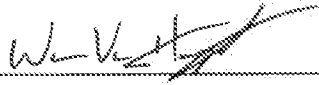
By:   
Name: William M. Brown  
Title: Executive Vice President and Chief Financial Officer

UNITED STATES PIPE AND FOUNDRY  
COMPANY, LLC  
GRIFFIN PIPE PRODUCTS CO., LLC  
CUSTOM FAB, INC.  
BIO CLEAN ENVIRONMENTAL SERVICES,  
INC.  
MODULAR WETLAND SYSTEMS, INC.

By:   
Name: William M. Brown  
Title: Executive Vice President

CREDIT SUISSE AG, CAYMAN ISLANDS BRANCH,  
as Administrative Agent

By:   
Name: Mikhail Faybusovich  
Title: Authorized Signatory

By:   
Name: Warren Van Heyst  
Title: Authorized Signatory

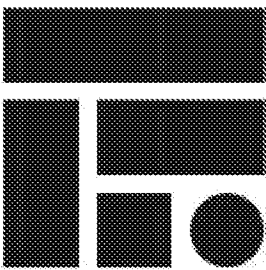
[SENIOR LIEN IP SECURITY AGREEMENT]

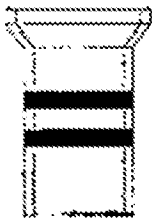
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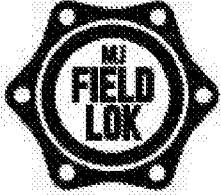
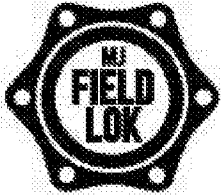
## COPYRIGHTS

<u>Owner</u>	<u>Copyright</u>	<u>Registration No.</u>
United States Pipe and Foundry Company, LLC	Melting Weighing System	TXu000235307
United States Pipe and Foundry Company, LLC	Weigh Station Inventory ID & Routing System	TXu000916784
Custom Fab, Inc.	Custom Fab	VA0001883827
Custom Fab, Inc.	Custom Fab Glass Lining Brochure	VA0001857003
Custom Fab, Inc.	Lining and Coating Process of a Protecto 401 Ceramic Epoxy Lined Ductile Iron Fitting	VA0001843261
Custom Fab, Inc.	Plate Hydrostatically Testing Ductile Iron Flanged Pipe, Full Load Hydrostatically Testing Ductile Iron Pipe	VA0001865824
Custom Fab, Inc.	President Portrait 1998	VA0001839280
Griffin Pipe Products Co., LLC	Computer Aided Thickness Design of Ductile Iron Pipe	TXu000286533
Modular Wetland Systems, Inc.	Technical Drawing	VAu00755509

## TRADEMARKS

<u>Owner</u>	<u>Trade Mark</u>	<u>Registration/ Application No.</u>	<u>Expiration Date, if Applicable</u>	<u>Country</u>
Forterra Pipe & Products, Inc. (now known as Forterra Pipe & Precast, LLC)	CEN-VI-RO	0993611	September 24, 2014; grace period ends March 24, 2015	United States
Price Brothers Company (now known as Forterra Pressure Pipe, Inc.)	STRESS-TITE	1218861	Expired	United States
Price Brothers Company (now known as Forterra Pressure Pipe, Inc.)	SNAP RING	1637384	March 12, 2021	United States
Forterra Pipe & Products Northwest, Inc. (now known as Forterra Pipe & Precast, LLC)	PREMIER	1855776	September 27, 2014; grace period ends March 27, 2015	United States
Forterra Pipe & Precast, LLC	CROWNSPAN (Applied for on October 28, 2014)	86436671	N/A	United States
Forterra Pipe & Precast, LLC	FORTERRA (Applied for on April 12, 2015)	86646452	N/A	United States
Forterra Pipe & Precast, LLC	Stylized F logo 	86684590	N/A	United States
Forterra Pipe & Precast, LLC	TERAVA (Applied for May 30, 2015)	86646450	N/A	United States
United States Pipe and Foundry Company, LLC	Design mark (2 white, circumferential stripes)	0735180		United States


<u>Owner</u>	<u>Trade Mark</u>	<u>Registration/ Application No.</u>	<u>Expiration Date, if Applicable</u>	<u>Country</u>
				
United States Pipe and Foundry Company, LLC	FAST FABRICATORS	3947208		United States
United States Pipe and Foundry Company, LLC	FAST FABRICATORS (stylized)	3923143		United States
United States Pipe and Foundry Company, LLC	FIELD LOK	1358033		United States
United States Pipe and Foundry Company, LLC	FIELD LOK 350	2211343		United States
United States Pipe and Foundry Company, LLC	FLANGE-TYTE	926864		United States
United States Pipe and Foundry Company, LLC	FULL FACE FLANGE-TYTE	3645051		United States
United States Pipe and Foundry Company, LLC	HP LOK	3413010		United States
United States Pipe and Foundry Company, LLC	MJ FIELD LOK	2813594		United States
United States Pipe and Foundry Company, LLC	MJ FIELD LOK	3112733		United States
United States Pipe and Foundry Company, LLC	MJ FIELD LOK & Design	3061160		United States

<u>Owner</u>	<u>Trade Mark</u>	<u>Registration/ Application No.</u>	<u>Expiration Date, if Applicable</u>	<u>Country</u>
				
United States Pipe and Foundry Company, LLC	MJ FIELD LOK & Design 	3061161		United States
United States Pipe and Foundry Company, LLC	PERMAFUSE	1414630		United States
United States Pipe and Foundry Company, LLC	POLYTHANE	1724982		United States
United States Pipe and Foundry Company, LLC	RING FLANGE-TYTE	3,765,528		United States
United States Pipe and Foundry Company, LLC	TR FLEX GRIPPER	1547962		United States
United States Pipe and Foundry Company, LLC	TR TELE FLEX	4317425		United States
United States Pipe and Foundry Company, LLC	TRIM TYTE (Expired)	1266141		United States
United States Pipe and Foundry Company, LLC	TRIM TYTON	1340059		United States

<u>Owner</u>	<u>Trade Mark</u>	<u>Registration/ Application No.</u>	<u>Expiration Date, if Applicable</u>	<u>Country</u>
United States Pipe and Foundry Company, LLC	TYTON	661920		United States
United States Pipe and Foundry Company, LLC	TYTON	689360		United States
United States Pipe and Foundry Company, LLC	TYTON (Expired)	715983		United States
United States Pipe and Foundry Company, LLC	TYTON	1000063		United States
United States Pipe and Foundry Company, LLC	TYTON	1004188		United States
United States Pipe and Foundry Company, LLC	TYTON JOINT	661552		United States
United States Pipe and Foundry Company, LLC	US PIPE	1478262		United States
United States Pipe and Foundry Company, LLC	USIFLEX	696636		United States
United States Pipe and Foundry Company, LLC	USIFLEX	757356		United States
United States Pipe and Foundry Company, LLC	USP Design	1152887		United States
United States Pipe and Foundry Company, LLC	USP stylized	641265		United States
United States Pipe and Foundry Company, LLC	VITCO	4152490		United States
United States Pipe and Foundry Company, LLC	XTRA FLEX	1662197		United States

<u>Owner</u>	<u>Trade Mark</u>	<u>Registration/ Application No.</u>	<u>Expiration Date, if Applicable</u>	<u>Country</u>
United States Pipe and Foundry Company, LLC	US PIPE FABRICATION	4430102		United States
United States Pipe and Foundry Company, LLC	US PIPE FABRICATION	4472238		United States
United States Pipe and Foundry Company, LLC	NXT	4605977		United States
United States Pipe and Foundry Company, LLC	NXT	85/642,103		United States
United States Pipe and Foundry Company, LLC	TR-XTREME	86/242587		United States
United States Pipe and Foundry Company, LLC	NXT	4339975		United States
United States Pipe and Foundry Company, LLC	SG-14	3981436		United States
United States Pipe and Foundry Company, LLC	TR FLEX	1266864		United States
United States Pipe and Foundry Company, LLC	TR FLEX	2021937		United States
Griffin Pipe Products Co., LLC	GRIFFIN	2,283,075		United States
Griffin Pipe Products Co., LLC	GRIFFIN-20	2,283,076		United States
Griffin Pipe Products Co., LLC	TALON	3,803,494		United States
Custom Fab, Inc.	CUSTOM CF FAB  Custom  Fab	4427477		United States



<u>Owner</u>	<u>Trade Mark</u>	<u>Registration/ Application No.</u>	<u>Expiration Date, if Applicable</u>	<u>Country</u>
Custom Fab, Inc.	SURROUND YOURSELF WITH PEOPLE YOU CAN TRUST	4349110		United States
Custom Fab, Inc.	QUALITY FABRICATIONS FOR THE WATERWORKS INDUSTRY	4344428		United States
Custom Fab, Inc.	US-CUSTOM FAB	86753922		United States
Bio Clean Environmental Services, Inc.	URBAN POND	87168529		United States
Bio Clean Environmental Services, Inc.	URBAN POND	86928483		United States
Modular Wetland Systems, Inc.	MODULAR WETLANDS	85854254		United States
Modular Wetland Systems, Inc.	WETLANDMOD	85420292		United States
Modular Wetland Systems, Inc.	MODULAR WETLANDS 	77120641		United States
Forterra Pipe & Precast, LLC	PREMIER	TMA475952	May 8, 2027	Canada

## PATENTS

Registered Owner	Title	Registration or Application Number	Status	Expiration Date (if applicable)	Country
Hanson Pipe & Products Northwest, Inc. (now known as Forterra Pipe & Precast, LLC)	Precast Concrete Railroad Crossing and Method for Making	5,626,289	Issued	August 25, 2015	US
Hanson Pipe & Products Northwest, Inc. (now known as Forterra Pipe & Precast, LLC)	Precast Concrete Curved Grade Crossing with Restraining Rail	5,988,519	Issued	November 18, 2017	US
Price Brothers Company (now known as Forterra Pressure Pipe, Inc.)	Testable pipe joint	7,118,137	Issued	March 3, 2023 (+51 days)	US
Price Brothers Company (now known as Forterra Pressure Pipe, Inc.)	Water treatment system and pressure pipe therefor	7,429,323	Issued	April 27, 2025 (+580 days)	US
Forterra Pipe & Precast, LLC	<u>APPLICATION</u> Fiber-Reinforced Concrete and Compositions for Forming Concrete Applied for on October 25, 2013.	Application No. 15/147,320	Pending	N/A	US
Forterra Pipe & Precast, LLC	<u>APPLICATION</u> Precast Stormwater Inlet Filter and Trap Applied for on March 12, 2014.	Application No. 14/206,154	Pending	N/A	US
Forterra Pipe & Precast, LLC	Precast Stormwater Inlet Filter and Trap	2,905,899	Issued		Canada
United States Pipe and Foundry Company, LLC	NON-DESTRUCTIVE THICKNESS MEASUREMENT SYSTEMS AND METHODS	8,600,702	Issued		US

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United States Pipe and Foundry Company, LLC	Mechanical Pipe Joint, Gasket, and Method for Restraining Pipe Spigots in Mechanical Pipe Joint Bell Sockets	7207606	Issued		US
United States Pipe and Foundry Company, LLC	Centroidally Twistable Compression Ring for Pipe Joints	7137653	Issued		US
United States Pipe and Foundry Company, LLC	Anti-Corrosive Coating for Metal Surfaces *Jointly owned with Sulzer Metco (US), Inc.	8293378	Issued		US
United States Pipe and Foundry Company, LLC	Multi-Layer Anti-Corrosive Coating *Jointly owned with Sulzer Metco (US), Inc.	12746114	Pending		US
United States Pipe and Foundry Company, LLC	Anodic Encasement Corrosion Protection System for Underground Storage Tanks, and Metallic Component Thereof	6331242	Issued		US
United States Pipe and Foundry Company, LLC	Non-Contact Measuring Device	6289600	Issued		US
United States Pipe and Foundry Company, LLC	Anodic Encasement Corrosion Protection System for Pipe and Apurtenances, and Metallic Components Thereof	6214203	Issued		US
United States Pipe and Foundry Company, LLC	Cement Lining Slinger Head Tachometer Assembly	5938849	Issued		US
United States Pipe and Foundry Company, LLC	Highly Ductile Reduced Imperfection Weld for Ductile Iron and Method for Producing Same	6730876	Issued		US

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United States Pipe and Foundry Company, LLC	Non-Destructive Testing Method and Apparatus to Determine Microstructure of Ferrous Metal Objects	6497151	Issued		US
United States Pipe and Foundry Company, LLC	Protective Coating for Metal Surfaces	8,697,251	Issued		US
United States Pipe and Foundry Company, LLC	Pipe Gland	D593642	Issued		US
United States Pipe and Foundry Company, LLC	Pipe Gland	D513793	Issued		US
United States Pipe and Foundry Company, LLC	Pipe Gland Ear	D515673	Issued		US
United States Pipe and Foundry Company, LLC	Pipe Gland Ear	D514669	Issued		US
United States Pipe and Foundry Company, LLC	Pipe Gland	D620086	Issued		US
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	MY-118935-A	Issued		MY
United States Pipe and Foundry Company, LLC	Mechanical Pipe Joint, Gasket and Method for Restraining Pipe Spigots in Mechanical Pipe Joint Bell Sockets	CA2563355	Issued		CA
United States Pipe and Foundry Company, LLC	Mechanical Pipe Joint, Gasket and Method for Restraining Pipe Spigots in Mechanical Pipe Joint Bell Sockets	MXPAO6012158	Issued		MX
United States Pipe and Foundry Company, LLC	Pipe Gland Ear	397087	Issued		KR

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Foundry Company, LLC					
United States Pipe and Foundry Company, LLC	Centroidally Twistable Compression Ring for Pipe and Joints ("Snap Ring")	CA2533746	Issued		CA
United States Pipe and Foundry Company, LLC	Centroidally Twistable Compression Ring for Pipe and Joints ("Snap Ring")	CN1860324	Abandoned		CN
United States Pipe and Foundry Company, LLC	Centroidally Twistable Compression Ring for Pipe Joints ("Snap Ring")	252234	Issued		IN
United States Pipe and Foundry Company, LLC	Centroidally Twistable Compression Ring for Pipe and Joints ("Snap Ring")	JP2007506925	Issued		JP
United States Pipe and Foundry Company, LLC	Centroidally Twistable Compression Ring for Pipe Joints ("Snap Ring")	KR20060054470	Issued		KR
United States Pipe and Foundry Company, LLC	Centroidally Twistable Compression Ring for Pipe Joints ("Snap Ring")	269644	Issued		MX
United States Pipe and Foundry Company, LLC	Energized Restraining Gasket For Mechanical Pipe Joint	284555	Issued		MX
United States Pipe and Foundry Company, LLC	Centroidally Twistable Compression Ring for Pipe Joints ("Snap Ring")	RU2322633	Issued		RU
United States Pipe and Foundry Company, LLC	Anti-Corrosive Coating for Metal Surfaces	WO/2009/073196	Pending		WO
United States Pipe and Foundry Company, LLC	Anti-Corrosive Coating For Metal Surfaces *Jointly owned with Sulzer Metco (US), Inc.	6052010	Pending		AE

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United States Pipe and Foundry Company, LLC	Anti-Corrosive Coating For Metal Surfaces *Jointly owned with Sulzer Metco (US), Inc.	CA2702638	Issued		CA
United States Pipe and Foundry Company, LLC	Anti-Corrosive Coating For Metal Surfaces *Jointly owned with Sulzer Metco (US), Inc.	472010	Pending		BH
United States Pipe and Foundry Company, LLC	Anti-Corrosive Coating For Metal Surfaces *Jointly owned with Sulzer Metco (US), Inc.	OMP201000086	Pending		OM
United States Pipe and Foundry Company, LLC	Anti-Corrosive Coating For Metal Surfaces *Jointly owned with Sulzer Metco (US), Inc.	MX2010006082	Issued		MX
United States Pipe and Foundry Company, LLC	Protective Coating for Metal Surfaces	2728345	Pending		CA
United States Pipe and Foundry Company, LLC	Protective Coating for Metal Surfaces	201117621	Pending		GCC
United States Pipe and Foundry Company, LLC	Protective Coating for Metal Surfaces	2011/000771	Pending		MX
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	31745	Issued		Philippines
United States Pipe and Foundry Company, LLC	Pipe Gland	109312	Abandoned		CA
United States Pipe and Foundry Company, LLC	Pipe Gland Ear	109313	Abandoned		CA
United States Pipe and Foundry Company, LLC	Pipe Gland Ear	109327	Abandoned		CA

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Foundry Company, LLC					
United States Pipe and Foundry Company, LLC	Pipe Gland Ear	20684	Abandoned		MX
United States Pipe and Foundry Company, LLC	Pipe Gland	20712	Abandoned		MX
United States Pipe and Foundry Company, LLC	Pipe Gland Ear	20713	Abandoned		MX
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe	6688652	Issued		US
United States Pipe and Foundry Company, LLC	Locking Device and Method For Securing Telescoped Pipe	2002346489	Issued		AU
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe	BRPI0206977-6	Issued		Brazil
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe (High Heel)	CA2467572	Issued		CA
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe (High Heel)	CA2607873	Issued		CA
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe (High Heel)	CR7371	Issued		CR
United States Pipe and Foundry Company, LLC	Locking Device and Method For Securing Telescoped Pipe (High Heel)	JP2005511997	Issued		JP
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe	225986	Issued		IN
United States Pipe and Foundry Company, LLC	Locking Device and Method For Securing	4904547	Issued		JP

Registered Owner	Title	Registration or Application Number	Status	Expiration Date (if applicable)	Country
	Telescoped Pipe (High Heel)				
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe (High Heel)	KR20080104082	Issued		KR
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe (High Heel)	EP1481187	Pending		EP
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe (High Heel)	ES2367299	Issued		ES
United States Pipe and Foundry Company, LLC	Restraining Gasket for Mechanical Joints of Pipes	7093863	Issued		US
United States Pipe and Foundry Company, LLC	Energized Restraining Gasket for Mechanical Joint Pipes	7104573	Issued		US
United States Pipe and Foundry Company, LLC	Energized Restraining Gasket for Mechanical Joints of Pipes	2003282837	Issued		AU
United States Pipe and Foundry Company, LLC	Energized Restraining Gasket for Mechanical Joints of Pipes	CA2536500	Issued		CA
United States Pipe and Foundry Company, LLC	Energized Restraining Gasket for Mechanical Joints of Pipes	CA2709737	Issued		CA
United States Pipe and Foundry Company, LLC	Energized Restraining Gasket for Mechanical Joints of Pipes	CN1860321	Issued		CN
United States Pipe and Foundry Company, LLC	Energized Restraining Gasket for Mechanical Joints of Pipes	227622	Issued		IN
United States Pipe and Foundry Company, LLC	Energized Restraining Gasket for Mechanical Joints of Pipes	206982	Issued		PL
United States Pipe and Foundry Company, LLC	Energized Restraining Gasket for Mechanical Joints of Pipes	RU2336454	Issued		RU



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United States Pipe and Foundry Company, LLC	Restraining Gasket for Mechanical Joints of Pipes	7108289	Issued		US
United States Pipe and Foundry Company, LLC	Centrifugal Casting Method and Apparatus	8,733,424	Issued		US
United States Pipe and Foundry Company, LLC	Centrifugal Casting Method and Apparatus	8,910,699	Issued		US
United States Pipe and Foundry Company, LLC	Centrifugal Casting Method and Apparatus	8,960,263	Issued		US
United States Pipe and Foundry Company, LLC	Centrifugal Casting Method and Apparatus	2902969	Pending		CA
United States Pipe and Foundry Company, LLC	Centrifugal Casting Method and Apparatus	14/172,483	Pending		US
United States Pipe and Foundry Company, LLC	Centrifugal Casting Method and Apparatus	WO/2014/144742	Pending		PCT
United States Pipe and Foundry Company, LLC	Separation-resistant Pipe Joint	WO/2015/089313	Pending		PCT
United States Pipe and Foundry Company, LLC	Separation-resistant Pipe Joint	2014/28523	Pending		GCC
United States Pipe and Foundry Company, LLC	Gasket for Threaded Pipe Flange	14/747,807	Pending		US
United States Pipe and Foundry Company, LLC	Method of Welding Two Ductile Iron Workpieces for Achieving Highly Ductile Reduced Imperfection Weld	EP1390173	Issued		EP
United States Pipe and Foundry Company, LLC	Method of Welding Two Ductile Iron Workpieces for Achieving Highly	JP2004527381	Abandoned		JP

Registered Owner	Title	Registration or Application Number	Status	Expiration Date (if applicable)	Country
	Ductile Reduced Imperfection Wel				
United States Pipe and Foundry Company, LLC	Pipe or Fitting Joint and Method of Forming Such a Joint	1481187	Issued		EP
United States Pipe and Foundry Company, LLC	Locking Device And Method For Securing Telescoped Pipe	1020047008971	Rejected/Abandoned		KR
United States Pipe and Foundry Company, LLC	Restraining Element for Pressure Pipe Joints	CA2102024	Expired		CA
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	AT147842	Expired		AT
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	BG62013	Expired		BG
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	CO4370795	Expired		Columbia
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	DK670020	Expired		Denmark
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	EG20195	Expired		Egypt
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	0596394	Expired		France
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	DE69307460	Expired		Germany
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	0596394	Expired		Great Britain
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	GR3031537	Expired		Greece

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United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	EP0670020	Expired		Ireland
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	0596394	Expired		Italy
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	MX9306684	Expired		Mexico
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	EP0670020	Expired		Netherlands
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	PL308907	Expired		Poland
United States Pipe and Foundry Company, LLC	GASKET FOR PREVENTION OF SEPARATION OF TELECOPIIC PIPES	RU2106566	Expired		Russian Fed.
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	ES2096182	Expired		Spain
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	EP0670020	Expired		Sweden
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	0596394	Expired		Switzerland
United States Pipe and Foundry Company, LLC	Improved Restraining Element for Pressure Pipe Joints	94/926	Expired		Turkey
United States Pipe and Foundry Company, LLC	Centroidally Twistable Compression Ring for Pipe Joints	No Data	Pending		European Union
United States Pipe and Foundry Company, LLC	Highly Ductile Reduced Imperfection Weld for Ductile Iron and Method for Producing Same	60235804.3	Expired		Germany

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United States Pipe and Foundry Company, LLC	Highly Ductile Reduced Imperfection Weld for Ductile Iron and Method for Producing Same	EP1390173	Expired		Italy
United States Pipe and Foundry Company, LLC	Improved Fixture for Pressure Tube Junction	JPHO3491167	Expired		JP
United States Pipe and Foundry Company, LLC	SEALING GASKET	RO113272	Expired		RO
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe	AT518088	Expired		AT
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe	FR 1481187	Expired		FR
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe	60240647.1	Expired		DE
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe	IT 1481187	Expired		IT
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe	EP 1481187	Expired		GB
Griffin Pipe Products Co., LLC	Method for Lining Pipe with Calcium Alumina Cement	5585141	Expired		US
Griffin Pipe Products Co., LLC	Cupola Emission Control System	6090180	ISSUED		US
Griffin Pipe Products Co., LLC	Pipe Moving Method Apparatus and System	6149376	ISSUED		US
Griffin Pipe Products Co., LLC	Pipe Core Clean Out System	6397923	ISSUED		US
Griffin Pipe Products Co., LLC	Sand Core Breaking Apparatus and Method	6425436	ISSUED		US

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Griffin Pipe Products Co., LLC	Control Casting Machine	7770628	ISSUED		US
Forterra Concrete Products, Inc.	Preformed duct system	8,689,502	ISSUED		US
Forterra Concrete Products, Inc.	<u>APPLICATION</u> Preformed Duct Assembly	Application No. 62/322,451	Pending		US
Bio Clean Environmental Services, Inc.	Partitioned Separator Water Treatment System With Upflow Filter	8,496,814	ISSUED	9/24/2031	USA
Bio Clean Environmental Services, Inc.	Partitioned Separator Water Treatment System With Multiple Upflow Filters	9,273,457	ISSUED	1/2/2031	USA
Bio Clean Environmental Services, Inc.	Cylindrical inline fluids filter	8,282,825	ISSUED	10/4/2030	USA
Bio Clean Environmental Services, Inc.	Storm Drain Filtration System	7,186,333	ISSUED	8/2/2025	USA
Bio Clean Environmental Services, Inc.	Surface Water Filtration Systems	9,051,192	ISSUED	2/26/2033	USA
Bio Clean Environmental Services, Inc.	Automatically Retractable Screens For Storm Drain Curb Inlets	9,151,033	ISSUED	6/3/2034	USA
Bio Clean Environmental Services, Inc.	Resistance Screens For Use In Storm Drain Filtration Systems	9,322,155	ISSUED	5/11/2034	USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION</u> : Underground Bioretention Systems	Application No. 13/962,995	Pending		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION</u> : Partitioned Separator Water Treatment System With Upflow Filter	Application No. 14/537,756	Pending		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION</u> : Partitioned Water Treatment Systems With Vertical Filtration Units	Application No. 14/145,765	Pending		USA

Registered Owner	Title	Registration or Application Number	Status	Expiration Date (if applicable)	Country
Bio Clean Environmental Services, Inc.	<u>APPLICATION:</u> Resistance Screens For Use In Storm Drain Filtration Systems	Application No. 15/052,741	Pending		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION:</u> Increased Capture Storm Drain Screens	Application No. 15/188,880	Pending		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION:</u> Partitioned Separator Water Treatment System With Upflow Filter	Application No. 14/217,258	Pending		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION:</u> Partitioned Separator Water Treatment System With Upflow Filter	Application No. 14/537,756	Pending		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION:</u> Underground Module for Storage of Stormwater (Hexagonal Water Storage Unit Assembly)	Application No. 29/567,711	Pending		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION:</u> Underground Assembly for Storage of Stormwater (Hexagonal Water Storage Module)	Application No. 29/567,713	Pending		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION:</u> Hexagonal Module and Assembly for Storage of Water Underground	Application No. 15/135,514	Pending		USA
Modular Wetland Systems, Inc.	Wetland Biofilter Chamber With Peripheral Catch Basin And Method Of Use Thereof	8,303,816	ISSUED	8/22/2031	USA
Modular Wetland Systems, Inc.	Horizontal Flow Biofilter System and Method of Use Thereof	8,771,515	ISSUED	8/22/2031	USA
Modular Wetland Systems, Inc.	Device and Method for Purifying Water	8,871,087	ISSUED	10/4/2031	USA

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Modular Wetland Systems, Inc.	Triple-Chambered Wetland Biofilter Treatment System	8,940,170	ISSUED	6/14/2033	USA
Modular Wetland Systems, Inc.	Horizontal Flow Biofilter System and Method of Use Thereof	9,409,805	ISSUED		USA
Modular Wetland Systems, Inc.	In Line Wetland Water Treatment System and Method	7,470,362	ISSUED	4/13/2027	USA
Modular Wetland Systems, Inc.	In Line Wetland Water Treatment System	7,425,262	ISSUED	4/13/2027	USA
Modular Wetland Systems, Inc.	Wetland Water Treatment System	7,674,378	ISSUED	4/30/2028	USA
Modular Wetland Systems, Inc.	In Line Wetland Water Treatment System and Method	2,684,057	ISSUED		Canada
Hanson Pipe & Products Northwest, Inc. (which is now known as Forterra Pipe & Precast, LLC)	Method and Apparatus for Electrically Isolating a Rail in a Precast Concrete Grade Crossing	2,180,652	ISSUED		Canada