

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7233148

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
FONTERRA PIPE & PRECAST, LLC	03/18/2022

RECEIVING PARTY DATA

Name:	WELLS FARGO BANK, N.A., AS AGENT
Street Address:	1700 LINCOLN STREET
Internal Address:	3RD FLOOR
City:	DENVER
State/Country:	COLORADO
Postal Code:	80203

PROPERTY NUMBERS Total: 2

Property Type	Number
Patent Number:	9598850
Patent Number:	10876661

CORRESPONDENCE DATA

Fax Number: (212)751-4864
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: 2129061209
Email: JESSICA.BAJADA-Bartlett@LW.COM
Correspondent Name: LATHAM & WATKINS LLP, C/O JESSICA BAJADA
Address Line 1: 1271 AVENUE OF THE AMERICAS
Address Line 4: NEW YORK, NEW YORK 10020

ATTORNEY DOCKET NUMBER:	037216-0035
NAME OF SUBMITTER:	JESSICA BAJADA-SILVA
SIGNATURE:	/s/ Jessica Bajada-Silva
DATE SIGNED:	03/18/2022

Total Attachments: 18

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PATENT SECURITY AGREEMENT
(First Lien)

This PATENT SECURITY AGREEMENT (this “Patent Security Agreement”) is made this 18th March, 2022, by and among **UNITED STATES PIPE AND FOUNDRY COMPANY, LLC**, an Alabama limited liability company, **GRIFFIN PIPE PRODUCTS CO., LLC**, a Delaware limited liability company, **CUSTOM FAB, INC.**, a Florida corporation, **BIO CLEAN ENVIRONMENTAL SERVICES, INC.**, a California corporation, **MODULAR WETLAND SYSTEMS, INC.**, a California corporation, **FORTERRA PIPE & PRECAST, LLC**, a Delaware limited liability company, **FORTERRA CONCRETE PRODUCTS, INC.**, an Iowa corporation, **FORTERRA PRECAST CONCEPTS, LLC**, a Delaware limited liability company, **BEST BLOCK, LLC**, a Georgia limited liability company, **PAVESTONE, LLC**, a Delaware limited liability company, **CONTECH ENGINEERED SOLUTIONS LLC**, an Ohio limited liability company, **KEYSTONE RETAINING WALL SYSTEMS LLC**, a Minnesota limited liability company (each, a “Grantor” and, collectively, “Grantors”), and **WELLS FARGO BANK, NATIONAL ASSOCIATION**, a national banking association (“Wells Fargo”), in its capacity as agent for the Secured Parties (in such capacity, together with its successors and assigns in such capacity, “Agent”).

WITNESSETH:

WHEREAS, pursuant to that certain Restated First Lien Credit Agreement dated as of November 15, 2016 (as amended, restated, amended and restated, supplemented, or otherwise modified from time to time, the “Credit Agreement”) by and among QUIKRETE Holdings, Inc. (the “Borrower”), the lenders party thereto as “Lenders” (each of such Lenders, together with its successors and assigns, is referred to hereinafter as a “Lender”) and Agent, the Lenders have agreed to make certain financial accommodations available to the Borrower from time to time pursuant to the terms and conditions thereof; and

WHEREAS, the Lenders are willing to make the financial accommodations to the Borrower as provided for in the Credit Agreement and the other Loan Documents, but only upon the condition, among others, that Grantors shall have executed and delivered to Agent, for the benefit of the Secured Parties, that certain Restated First Lien Guaranty and Security Agreement, dated as of November 15, 2016 (including all annexes, exhibits or schedules thereto, as from time to time amended, restated, supplemented or otherwise modified, the “Guaranty and Security Agreement”); and

WHEREAS, pursuant to the Guaranty and Security Agreement, Grantors are required to execute and deliver to Agent, for the benefit of the Secured Parties, this Patent Security Agreement;

NOW, THEREFORE, in consideration of the premises and mutual covenants herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantors hereby agree as follows:

1. DEFINED TERMS. All initially capitalized terms used but not otherwise defined herein have the meanings given to them in the Guaranty and Security Agreement or, if not defined therein, in the Credit Agreement, and this Patent Security Agreement shall be subject to the rules of construction set forth in Section 1(b) of the Guaranty and Security Agreement, which rules of construction are incorporated herein by this reference, mutatis mutandis.

2. GRANT OF SECURITY INTEREST IN PATENT COLLATERAL. Grantors hereby unconditionally grant, assign, and pledge to Agent, for the benefit of the Secured Parties, to secure the Secured Obligations, a continuing security interest (referred to in this Patent Security Agreement as the “Security Interest”) in all of each Grantor’s respective right, title and interest in and to the following,

whether now owned or hereafter acquired or arising and wherever located (collectively, the “Patent Collateral”):

all patentable inventions and designs, all United States, foreign, and multinational patents, certificates of invention, and similar industrial property rights, and applications for any of the foregoing, including without limitation:

- (i) each patent and patent application listed in Schedule I attached hereto
- (ii) all reissues, substitutes, divisions, continuations, continuations-in-part, extensions, renewals, and reexaminations thereof,
- (iii) all inventions and improvements described and claimed therein,
- (iv) all rights to sue or otherwise recover for any past, present and future infringement or other violation thereof,
- (v) all Proceeds of the foregoing, including, without limitation, license fees, royalties, income, payments, claims, damages, and proceeds of suit now or hereafter due and/or payable with respect thereto, income, royalties, damages and other payments now and hereafter due and/or payable with respect thereto, and
- (vi) all other rights of any accruing thereunder or pertaining thereto throughout the world.

3. SECURITY FOR SECURED OBLIGATIONS. This Patent Security Agreement and the Security Interest created hereby secures the payment and performance of the Secured Obligations, whether now existing or arising hereafter. Without limiting the generality of the foregoing, this Patent Security Agreement secures the payment of all amounts which constitute part of the Secured Obligations and would be owed by each Grantor to Agent, the other Secured Parties or any of them, whether or not they are unenforceable or not allowable due to the existence of an Insolvency Proceeding involving either Grantor.

4. SECURITY AGREEMENT. The Security Interest granted pursuant to this Patent Security Agreement is granted in conjunction with the security interests granted to Agent, for the benefit of the Secured Parties, pursuant to the Guaranty and Security Agreement. Grantors hereby acknowledge and affirm that the rights and remedies of Agent with respect to the Security Interest in the Patent Collateral made and granted hereby are more fully set forth in the Guaranty and Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. To the extent there is any inconsistency between this Patent Security Agreement and the Guaranty and Security Agreement, the Guaranty and Security Agreement shall control.

5. COUNTERPARTS. This Patent Security Agreement is a Loan Document. This Patent Security Agreement may be executed in any number of counterparts and by different parties on separate counterparts, each of which, when executed and delivered, shall be deemed to be an original, and all of which, when taken together, shall constitute but one and the same Patent Security Agreement. Delivery of an executed counterpart of this Patent Security Agreement by telefacsimile or other electronic method of transmission shall be equally as effective as delivery of an original executed counterpart of this Patent Security Agreement. Any party delivering an executed counterpart of this Patent Security Agreement by telefacsimile or other electronic method of transmission also shall deliver an original executed counterpart of this Patent Security Agreement but the failure to deliver an original executed counterpart shall not affect the validity, enforceability, and binding effect of this Patent Security Agreement.

6. CHOICE OF LAW AND VENUE, JURY TRIAL WAIVER, AND JUDICIAL REFERENCE PROVISION. THIS PATENT SECURITY AGREEMENT SHALL BE SUBJECT TO THE PROVISIONS REGARDING CHOICE OF LAW AND VENUE, JURY TRIAL WAIVER, AND JUDICIAL REFERENCE SET FORTH IN SECTION 29 OF THE GUARANTY AND SECURITY AGREEMENT, AND SUCH PROVISIONS ARE INCORPORATED HEREIN BY THIS REFERENCE, MUTATIS MUTANDIS.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, the parties hereto have caused this Patent Security Agreement to be executed and delivered as of the day and year first above written.

GRANTORS:

**UNITED STATES PIPE AND FOUNDRY
COMPANY, LLC
GRIFFIN PIPE PRODUCTS CO., LLC
CUSTOM FAB, INC.
BIO CLEAN ENVIRONMENTAL SERVICES, INC.
MODULAR WETLAND SYSTEMS, INC.
FORTERRA PIPE & PRECAST, LLC
FORTERRA CONCRETE PRODUCTS, INC.
FORTERRA PRECAST CONCEPTS, LLC
BEST BLOCK, LLC
PAVESTONE, LLC
CONTECH ENGINEERED SOLUTIONS LLC
KEYSTONE RETAINING WALL SYSTEMS LLC**

By: 
Name: David T. Jones
Title: Chief Financial Officer


[SIGNATURE PAGE TO PATENT SECURITY AGREEMENT]

**PATENT
REEL: 059313 FRAME: 0731**

AGENT:

ACCEPTED AND ACKNOWLEDGED BY:

**WELLS FARGO BANK, NATIONAL
ASSOCIATION, a national banking association**

By:  _____

Name: William Nixon

Title: Senior Vice President

[SIGNATURE PAGE TO PATENT SECURITY AGREEMENT]

**PATENT
REEL: 059313 FRAME: 0732**

SCHEDULE I
to
PATENT SECURITY AGREEMENT

Patents and Patent Applications

<u>Registered Owner</u>	<u>Title</u>	<u>Registration or Application No.</u>	<u>Status</u>	<u>Expiration Date (if applicable)</u>	<u>Country</u>
Forterra Pipe & Precast, LLC	APPLICATION Precast Stormwater Inlet Filter and Trap. Applied for on March 12, 2014.	Application No. 14/206,154 Patent No. 9598850	Issued	N/A	USA
United States Pipe and Foundry Company, LLC	Non-Destructive Thickness Measurement Systems And Methods	8,600,702	Issued		USA
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		USA
United States Pipe and Foundry ¹ Company, LLC	Centroidally Twistable Compression Ring for Pipe Joints	7137653	Issued		USA
United States Pipe and Foundry Company, LLC	Anti-Corrosive Coating for Metal Surfaces *Jointly owned with Sulzer Metco (USA), Inc.	8293378	Issued		USA
United States Pipe and Foundry Company, LLC	Highly Ductile Reduced Imperfection Weld for Ductile Iron and Method for Producing Same	6730876	Issued		USA
United States Pipe and Foundry Company, LLC	Protective Coating for Metal Surfaces	8,697,251	Issued		USA
United States Pipe and Foundry Company, LLC	Pipe Gland	D593642	Issued		USA
United States Pipe and Foundry Company, LLC	Pipe Gland	D513793	Issued		USA
United States Pipe and Foundry Company, LLC	Pipe Gland Ear	D515673	Issued		USA
United States Pipe and Foundry Company, LLC	Pipe Gland Ear	D514669	Issued		USA
United States Pipe and Foundry Company, LLC	Pipe Gland	D620086	Issued		USA
United States Pipe and Foundry Company, LLC	Locking Device and Method for Securing Telescoped Pipe	6688652	Issued		USA

<u>Registered Owner</u>	<u>Title</u>	<u>Registration or Application No.</u>	<u>Status</u>	<u>Expiration Date (if applicable)</u>	<u>Country</u>
United States Pipe and Foundry Company, LLC	Restraining Gasket for Mechanical Joints of Pipes	7093863	Issued		USA
United States Pipe and Foundry Company, LLC	Energized Restraining Gasket for Mechanical Joint Pipes	7104573	Issued		USA
United States Pipe and Foundry Company, LLC	Restraining Gasket for Mechanical Joints of Pipes	7108289	Issued		USA
United States Pipe and Foundry Company, LLC	Centrifugal Casting Method and Apparatus	8,733,424	Issued		USA
United States Pipe and Foundry Company, LLC	Centrifugal Casting Method and Apparatus	8,910,699	Issued		USA
United States Pipe and Foundry Company, LLC	Centrifugal Casting Method and Apparatus	8,960,263	Issued		USA
United States Pipe and Foundry Company, LLC	Gasket for Threaded Pipe Flange	14/747,807	Pending		USA
United States Pipe and Foundry Company, LLC	Conductive Insert For Gasket	17/097,326	Pending		USA
Griffin Pipe Products Co., LLC	Control Casting Machine	7770628	Issued		USA
Forterra Concrete Products, Inc.	<u>APPLICATION</u> Preformed duct system	8,689,502	Issued		USA
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
Modular Wetland Systems, 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

<u>Registered Owner</u>	<u>Title</u>	<u>Registration or Application No.</u>	<u>Status</u>	<u>Expiration Date (if applicable)</u>	<u>Country</u>
Bio Clean Environmental Services, Inc.	<u>APPLICATION</u> Partitioned Separator Water Treatment System With Upflow Filter	Application No. 14/537,756 Patent No. 9809969	Issued		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION</u> Partitioned Water Treatment Systems With Vertical Filtration Units	Application No. 14/145,765 Patent No. 9604160	Issued		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION</u> Resistance Screens For Use In Storm Drain Filtration Systems	10,227,768	Issued		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 Patent No. D795383	Issued		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION</u> Underground Assembly for Storage of Stormwater (Hexagonal Water Storage Module)	Application No. 29/567,713 Patent No. D795384	Issued		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION</u> Hexagonal Module and	Application No. 15/135,514 Patent No. 9732508	Issued		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION</u> Partitioned Water Treatment Systems with	10,307,696	Issued		USA
Bio Clean Environmental Services, Inc.	<u>APPLICATION</u> Partitioned Water Treatment Systems with Vertical Filtration Units	10,369,496	Issued		USA
Bio Clean Environmental Services, Inc.	Partitioned Water Treatment Systems With Vertical Filtration Units	16/429,212	Pending	USPTO assignment data not available	USA
Bio Clean Environmental Services, Inc.	Passive Membrane Filtration System With Pre-	16/571,449	Pending	USPTO assignment data not available	USA
Bio Clean Environmental Services, Inc.	Connector Pipe Screen	15/956,714 Patent No. 10653983	Issued		USA

<u>Registered Owner</u>	<u>Title</u>	<u>Registration or Application No.</u>	<u>Status</u>	<u>Expiration Date (if applicable)</u>	<u>Country</u>
Bio Clean Environmental Services, Inc.	Hexagonal Module And Assembly For Storage Of Water Underground	17/020,696	Pending		USA
Modular Wetlands Systems, Inc.	Horizontal Flow Biofilter System And Method of Use	16/417,472	Granted	USPTO assignment data not available	USA
Modular Wetlands Systems, Inc.	Horizontal Flow Biofilter System And Method of Use	17/367,546 Patent No. 11,053,147	Pending		USA
Modular Wetlands Systems, Inc.	Multi-Level Orifice Control Biofilter	16/984,020	Pending		USA
Modular Wetlands Systems, Inc.	Two Sided Horizontal Flow Bioretention Stormwater System	17/076,699	Pending		USA
United States Pipe and Foundry Company, LLC	Separation-Resistant Pipe Joint With Enhanced Ease	16/310,363	Pending	USPTO assignment data not available	USA
Bio Clean Environmental Services, Inc.	Tessellation Square Module and Underground	16/537,585	Pending	USPTO assignment data not available	USA
Bio Clean Environmental Services, Inc.	Underground Storage System With V-Shaped Support Legs	16/577,617	Pending	USPTO assignment data not available	USA
Bio Clean Environmental Services, Inc.	Hexagonal Module And Assembly For Storage of Water Underground	10,774,516	Issued	USPTO assignment data not available	USA
Bio Clean Environmental Services, Inc.	Multi-Level Outlet Weir for Enhanced Volumetric Separation for Stormwater Treatment	17/062,518	Pending		USA
Bio Clean Environmental Services, Inc.	Vector Control Screen For Stormwater Treatment Systems	63/120,429	Pending		USA
Modular Wetlands Systems, Inc.	Horizontal Flow Biofilter System and Method of Use Thereof	10,294,135	Issued		USA
Bio Clean Environmental Services, Inc.	Hydrodynamic Separator for Stormwater Treatment	10,344,466	Issued		USA

<u>Registered Owner</u>	<u>Title</u>	<u>Registration or Application No.</u>	<u>Status</u>	<u>Expiration Date (if applicable)</u>	<u>Country</u>
Bio Clean Environmental Services, Inc.	Hexagonal Module and Assembly for Storage of Water Underground	10,267,029	Issued		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
Modular Wetland Systems, Inc.	Dual-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
Forterra Concrete Products, Inc.	Multi-Cage Spacer	8,322,109	Issued	12/4/2012	USA
Forterra Concrete Products, Inc.	Catch Basin Flow Diverter	D556865	Issued		USA
Forterra Concrete Products, Inc.	Liquid Filtration System	7,632,403	Issued		USA
Forterra Precast Concepts, LLC	Method for making precast concrete	8,282,869	Issued		USA
Forterra Precast Concepts, LLC	Molded Concrete Blocks Having Simulated Brick or Stone Outer Surfaces And Method of Making Same	14/176,991 Patent No. 9758943	Issued		USA
Forterra Precast Concepts, LLC	Molded Concrete Blocks Having Simulated Brick or Stone Outer Surfaces And Method of Making Same	61/762,685	Pending		USA
Bio Clean Environmental Services, Inc.	Catch Basin With Pivot Weir	17/027,654	Pending		USA

<u>Registered Owner</u>	<u>Title</u>	<u>Registration or Application No.</u>	<u>Status</u>	<u>Expiration Date (if applicable)</u>	<u>Country</u>
Forterra Concrete Products, Inc.	Sanitary storm and catch basin trap	Patent No. D574933	Issued		USA
Forterra Concrete Products, Inc.	Sanitary storm and catch basin trap	Patent No. D557385	Issued		USA
Forterra Concrete Products, Inc.	Sanitary storm and catch basin trap	Patent No. D559958	Issued		USA
Forterra Concrete Products, Inc.	Sanitary storm and catch basin trap	Patent No. D559959	Issued		USA
Forterra Concrete Products, Inc.	Sanitary storm and catch basin trap	Patent No. D572802	Issued		USA
Forterra Pipe & Precast, LLC	Preformed Duct Assembly	Patent No. 10,876,661	Issued		USA
Griffin Pipe Products Co., LLC	Flexible pipe joint	Patent No. 9829137	Issued		USA
United States Pipe and Foundry Company, LLC	Separation-resistant pipe joint	Patent No. 10550973	Issued		USA
Bio Clean Environmental Services, Inc.	Honeycomb module and underground storage system	Patent No. 10151083	Issued		USA
Bio Clean Environmental Services, Inc.	Tessellation square module and underground storage system	Patent No. 10151096	Issued		USA
Bio Clean Environmental Services, Inc.	Honeycomb module and underground storage system	Patent No. 10626580	Issued		USA
Bio Clean Environmental Services, Inc.	Underground module for storage of water	Patent No. D795385	Issued		USA
Bio Clean Environmental Services, Inc.	Three-Legged Square Water Storage Unit Assembly	Patent No. D828902	Issued		USA
Bio Clean Environmental Services, Inc.	Four-Legged Square Water Storage Unit Assembly	Patent No. D828903	Issued		USA
Bio Clean Environmental Services, Inc.	Partitioned separator water treatment system with upflow filter	Serial No. 15805346 Registration No. 10,927,538	Granted		USA
Bio Clean Environmental Services, Inc.	PARTITIONED SEPARATOR WATER TREATMENT SYSTEM WITH UPFLOW FILTER	17/164,513	Pending	February 1, 2021	USA
Bio Clean Environmental Services, Inc.	Hydrodynamic separator for stormwater treatment	Serial No. 16505275	Pending		USA

<u>Registered Owner</u>	<u>Title</u>	<u>Registration or Application No.</u>	<u>Status</u>	<u>Expiration Date (if applicable)</u>	<u>Country</u>
Bio Clean Environmental Services, Inc.	Volume Controlled Hydrodynamic Separator For Stormwater Treatment	17/472,656	Pending	September 12, 2021	USA
Bio Clean Environmental Services, Inc.	Partitioned water treatment systems with vertical filtration units	Serial No. 16429204	Pending		USA

Owner: Best Block, LLC

<u>Title</u>	<u>Filing Date</u>	<u>Application No.</u>	<u>Issue Date</u>	<u>Patent No.</u>
Erosion Control Block	26-Oct-12	13/661,167	6-Dec-16	9,512,582
System and Apparatus for Repairing a Foundation	1-Jan-13	13/754,368	5-May-15	9,022,694
Pile and System for Repairing a Foundation	12-Jan-21	63/136,479	N/A	N/A

Owner: Pavestone, LLC

<u>Title (or other)</u>	<u>Status</u>	<u>Owner</u>
FRONT FACE OF A RETAINING WALL BLOCK (Divisional – Design)	Issued, Patent No. D773,693 issued December 6, 2016, Expiration 12/06/2030	Pavestone, LLC
INTERLOCKING PAVER	Issued, Patent No. D791,346 issued July 4, 2017, Expiration 07/04/2032	Pavestone, LLC
METHOD AND APPARATUS FOR DRY CAST FACING CONCRETE DEPOSITION	Issued, Patent No. 9,701,046 issued July 11, 2017, Expiration 12/26/2024	Pavestone, LLC
ADJUSTABLE LOCATOR RETAINING WALL BLOCK AND MOLD APPARATUS	Issued, Patent No. 9,744,697 issued August 29, 2017, Expiration 06/20/2034	Pavestone, LLC
ADJUSTABLE LOCATOR RETAINING WALL BLOCK AND MOLD APPARATUS	Issued, Patent No. 9,999,993 issued June 19, 2018, Expiration 06/20/2034	Pavestone, LLC
ROCK FACE SPLITTING APPARATUS AND METHOD	Issued, Patent No. 10,046,480 issued August 14, 2018, Expiration 03/31/2035	Pavestone, LLC
METHOD AND APPARATUS FOR DRY CAST FACING CONCRETE DEPOSITION	Issued, Patent No. 10,059,043 issued August 28, 2018, Expiration 06/20/2034	Pavestone, LLC
PAVER	Issued, Patent No. D844,856 issued April 2, 2019, Expiration 04/02/2034	Pavestone, LLC

<u>Title (or other)</u>	<u>Status</u>	<u>Owner</u>
ADJUSTABLE LOCATOR RETAINING WALL BLOCK AND MOLD APPARATUS	Issued, Patent No. 10,486,344 issued November 26, 2019, Expiration 06/20/2034	Pavestone, LLC
MANUFACTURED RETAINING WALL BLOCK WITH IMPROVED FALSE JOINT	Issued, Patent No. 10,583,588 issued March 10, 2020, Expiration 06/20/2034	Pavestone, LLC
INTERLOCKING PAVER	Issued, Patent No. D887,024 issued June 9, 2020, Expiration 06/09/2035	Pavestone, LLC
ADJUSTABLE LOCATOR RETAINING WALL BLOCK AND MOLD APPARATUS	Issued, Patent No. 10,899,049 issued January 26, 2021, Expiration 06/20/2034	Pavestone, LLC
MANUFACTURED RETAINING WALL BLOCK WITH IMPROVED FALSE JOINT	Issued, Patent No. 11,034,062 issued June 15, 2021, Expiration 06/20/2034	Pavestone, LLC
RANDOM LINEAR PAVING SLAB	Issued, Patent No. D928,986 issued August 24, 2021, Expiration 08/24/2036	Pavestone, LLC
HEX-SHAPED PAVER	New DESIGN Patent App. No. 29/799,369, filed July 14, 2021	Pavestone, LLC
MULTI-FACE WALL BLOCK	New DESIGN Patent App. No. 29/799,372, filed July 14, 2021	Pavestone, LLC
NESTED MASONRY BLOCK MANUFACTURING AND METHOD	New CIP Patent App. No. 17/545,435, filed December 8, 2021	Pavestone, LLC
MULTI-FACE WALL BLOCK WITH SPLIT	New DESIGN Patent App. No. 29/819,307, filed December 14, 2021	Pavestone, LLC

Owner: Contech Engineered Solutions LLC

Assignee Name	Country ID	Type	Serial #	Filed Date	Patent #	Issue Date	Title	Status	Expiration Date
CONTECH ENGINEERED SOLUTIONS LLC	US	UTL	17/001,866	8/25/2020			CULVERT SYSTEM WITH FLEXIBLE TOE WALL	PUBLISHED	8/25/2040
CONTECH ENGINEERED SOLUTIONS LLC	US	UTL	17/397,252	8/9/2021			STORMWATER TREATMENT DEVICE	PENDING	8/9/2041
CONTECH ENGINEERED SOLUTIONS LLC	US	UTL	17/144,230	1/8/2021			HELICALLY WOUND PIPE AND RELATED METHOD	PENDING	1/8/2041

Owner: Keystone Retaining Wall Systems LLC

Country	Type	Serial #	Filed Date	Patent #	Issue Date	Title	Status	Expiration Date
USA	UTL	16/730102	12/30/2019			RETAINING WALL CONTAINING WALL BLOCKS WITH WEIGHT BEARING PADS	Response to Final Office Action filed 11/8/2021	
USA	UTL	14/507295	10/6/2014	9580881	2/28/2017	RETAINING WALL CONTAINING WALL BLOCKS WITH WEIGHT BEARING PADS	ISSUED	11/7/2028
USA	UTL	15/845395	12/18/2017	10519656	12/31/2019	RETAINING WALL CONTAINING WALL BLOCKS WITH WEIGHT BEARING PADS	ISSUED	11/7/2028
USA	UTL	15/221,767	7/28/2016	9,745,742	8/29/2017		Issued	2/17/2023
USA	UTL	15/283,770	10/3/2016	10,329,717	6/25/2019		Issued	3/12/2034
USA	UTL	14/204,589	3/11/2014	9,739,028	8/22/2017		Issued	11/2/2034
USA	UTL	15/052,782	2/24/2016	9,832,934	12/5/2017	EDGER HAVING CONNECTION SURFACES	Issued	2/24/2036
USA	UTL	15/217,406	7/22/2016	9,732,523	8/15/2017	CONNECTION SURFACE FOR A STRUCTURAL UNIT AND METHOD OF MAKING SAME	Issued	7/22/2036

PATENT

REEL: 059313 FRAME: 0741

Country	Type	Serial #	Filed Date	Patent #	Issue Date	Title	Status	Expiration Date
USA	DES	29/547,077	12/1/2015	D782,704	3/28/2017		Issued	3/28/2032
USA	DES	29/547,073	12/1/2015	D782,703	3/28/2017		Issued	3/28/2032
USA	UTL	15/793265	10/25/2017	10337163	7/2/2019	BLOCKS, BLOCK SYSTEMS AND METHODS OF MAKING BLOCKS	Issued	2/23/2036
USA	UTL	16/458800	7/1/2019	10,760,242	9/1/2020	BLOCKS, BLOCK SYSTEMS AND METHODS OF MAKING BLOCKS	ISSUED	2/23/2036
USA	DES	29/559779	3/31/2016	D789558	6/13/2017	LANDSCAPING BLOCK	ISSUED	6/13/2032
USA	DES	29/602753	5/3/2017	D816869	5/1/2018	LANDSCAPING BLOCK	ISSUED	5/1/2033
USA	UTL	15/045,795	2/17/2016	9903088	2/27/2018	BLOCKS AND BLOCK CONNECTORS, BLOCK SYSTEMS AND METHODS OF MAKING BLOCKS	ISSUED	2/17/2036
USA	UTL	15/730,228	10/11/2017	10,422,101	9/24/2019	BLOCKS AND BLOCK CONNECTORS, BLOCK SYSTEMS AND METHODS OF MAKING BLOCKS	ISSUED	2/17/2036
USA	UTL	16/048881	7/30/2018			BLOCK, BLOCK SYSTEM AND METHOD OF MAKING A BLOCK	Non-Final Office Action issued 12/13/2021	
USA	DES	29/781,088	4/28/2021			LANDSCAPING BLOCK	Filed	
USA	UTL	16/048930	7/30/2018	10927547	2/23/2021	WALL BLOCKS, VENEER PANELS FOR WALL BLOCKS AND METHOD OF CONSTRUCTING WALLS	ISSUED	10/8/2032
USA	UTL	17/180,561	2/19/2021			WALL BLOCKS, VENEER PANELS FOR WALL BLOCKS AND METHOD OF CONSTRUCTING WALLS	PENDING	
USA	DES	29/571762	7/21/2016	D814911	4/10/2018	CONNECTOR	ISSUED	4/10/2033

Country	Type	Serial #	Filed Date	Patent #	Issue Date	Title	Status	Expiration Date
USA	DES	29/571777	7/21/2016	D815938	4/24/2018	CONNECTOR	ISSUED	4/24/2033
USA	DES	29/571782	7/21/2016	D814278	4/3/2018	CONNECTOR	ISSUED	4/3/2033
USA	UTL	16/898,473	6/11/2020	11,174,616	11/16/2021	WALL BLOCKS HAVING ONE OR MORE MULTI-FACETED FACES OR SIDE WALLS, WALL BLOCK SYSTEMS AND METHODS OF CONSTRUCTING A WALL	Issued	3/6/2039
USA	DES	29/643,566	4/10/2018	D866,799	11/12/2019	LANDSCAPING BLOCK	Issued	11/12/2034
USA	DES	29/712,699	11/11/2019	D905,282	12/15/2020	LANDSCAPING BLOCK	ISSUED	12/15/2035
USA	UTL	16/294,177	3/6/2019	10,711,425	7/14/2020	WALL BLOCKS HAVING ONE OR MORE MULTI-FACETED FACES OR SIDE WALLS, WALL BLOCK SYSTEMS AND METHODS OF CONSTRUCTING A WALL	Issued	3/6/2039
USA	UTL	14/861224	9/22/2015	9574317	2/21/2017	WALL BLOCK AND WALL BLOCK SYSTEM	ISSUED	4/17/2033
USA	UTL	15/401646	1/9/2017	9957687	5/1/2018	WALL BLOCK AND WALL BLOCK SYSTEM	ISSUED	4/17/2033
USA	UTL	14/085189	11/20/2013	9643337	5/9/2017	BLOCK SPLITTER ASSEMBLY AND METHOD OF PRODUCING WALL BLOCKS	ISSUED	6/5/2028
USA	UTL	16/449,723	6/24/2019	10,760,224	9/1/2020	TWISTED BLOCK	Issued	3/12/2034
USA	DES	29/533762	7/22/2015	D789555	6/13/2017	LANDSCAPING BLOCK	ISSUED	6/13/2032
USA	DES	29/602751	5/3/2017	D819231	5/29/2018	LANDSCAPING BLOCK	ISSUED	5/29/2033
USA	DES	29/533763	7/22/2015	D791345	7/4/2017	LANDSCAPING BLOCK	ISSUED	7/4/2032
USA	DES	29/533764	7/22/2015	D789556	6/13/2017	LANDSCAPING BLOCK	ISSUED	6/13/2032
USA	DES	29/602747	5/3/2017	D824542	7/31/2018	LANDSCAPING BLOCK	ISSUED	7/31/2033
USA	UTL	15/215109	7/20/2016	9951527	4/24/2018	PATIO BLOCKS AND BLOCK SYSTEMS WITH SIDE SURFACE POSITIONING AND RETAINING STRUCTURES	ISSUED	7/20/2036

Country	Type	Serial #	Filed Date	Patent #	Issue Date	Title	Status	Expiration Date
USA	UTL	15/959817	4/23/2018	10,370,859	8/6/2019	PATIO BLOCKS AND BLOCK SYSTEMS WITH SIDE SURFACE POSITIONING AND RETAINING STRUCTURES	ISSUED	7/20/2036
USA	UTL	16/527,450	7/31/2019	10,655,340	5/19/2020	PATIO BLOCKS AND BLOCK SYSTEMS WITH SIDE SURFACE POSITIONING AND RETAINING STRUCTURES	Issued	7/20/2036
USA	UTL	16/876,598	5/18/2020	11,060,305	7/13/2021	PATIO BLOCKS AND BLOCK SYSTEMS WITH SIDE SURFACE POSITIONING AND RETAINING STRUCTURES	ISSUED	7/20/2036
USA	DES	29/623,489	10/25/2017	D846760	4/23/2019	WALL BLOCK	Issued	4/23/2034
USA	UTL	16/166533	10/22/2018	10,760,269	9/1/2020	RETAINING WALL BLOCK AND RETAINING WALL BLOCK SYSTEM	Issued	10/22/2038
USA	UTL	16/704222	12/5/2019			BRIDGING LINTEL WITH SUPPORT HANGERS FOR AN INSERT AND BLOCK SYSTEM FOR A STRUCTURE	PENDING	
USA	DES	29/518428	2/24/2015	D773072	11/29/2016	LANDSCAPING BLOCK	ISSUED	11/29/2030
USA	DES	29/617,987	9/18/2017	D877,653	3/10/2020	PLANTER BLOCK	Issued	3/10/2035
USA	DES	29/571768	7/21/2016	D812781	3/13/2018	SURFACE OF A WALL BLOCK	ISSUED	3/13/2033
USA	DES	29/525577	4/30/2015	D773694	12/6/2016	LANDSCAPING BLOCK	ISSUED	12/6/2030
USA	DES	29/582059	10/25/2016	D810322	2/13/2018	LANDSCAPING BLOCK	ISSUED	2/13/2032
USA	DES	29/523979	4/15/2015	D775372	12/27/2016	LANDSCAPING BLOCK	ISSUED	12/27/2030
USA	DES	29/584507	11/15/2016	D809673	2/6/2018	LANDSCAPING BLOCK	ISSUED	2/6/2033
USA	DES	29/601,773	4/26/2017	D844181	3/26/2019	LANDSCAPING BLOCK	Issued	3/26/2034
USA	DES	29/677,506	1/22/2019	D880727	4/7/2020	LANDSCAPING BLOCK	Issued	4/7/2035
USA	UTL	15/653,796	7/19/2017	10,156,077	12/18/2018	VEENEER CONNECTORS, WALL BLOCKS, VENEER PANELS FOR WALL BLOCKS, AND WALLS	Issued	7/19/2037

Country	Type	Serial #	Filed Date	Patent #	Issue Date	Title	Status	Expiration Date
USA	UTL	16/167,961	10/23/2018	10,760,281	9/1/2020	VEENEER CONNECTORS, WALL BLOCKS, VENEER PANELS FOR WALL BLOCKS, AND WALLS	Issued	7/19/2037
USA	DES	29/403303	10/4/2011	D666514	8/14/2012	LANDSCAPING BLOCK	ISSUED	8/14/2026
USA	UTL	15/264895	9/14/2016	9943983	4/17/2018	BLOCK SPLITTER ASSEMBLY AND METHOD OF PRODUCING WALL BLOCKS	ISSUED (decision was made not to pay the next annuity fee)	10/19/2036
USA	UTL	16/936,583	07/23/2020			RETAINING WALL BLOCK AND RETAINING WALL BLOCK SYSTEM	Restriction Requirement Issued 10/12/2021	
USA	PRV	63/277,909	11/10/2021			SEGMENTED WALL SYSTEMS HAVING TAIL BLOCKS AND ENGAGEMENT PROTRUSIONS		

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REEL: 059313 FRAME: 0745

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