

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7763381

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	A.I. INNOVATIONS N.V.	01/09/2023
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	CAST ENVIRONMENTAL SOLUTIONS, LLC	
<b>Street Address:</b>	422 CAVERSHAM ROAD	
<b>City:</b>	BRYN MAWR	
<b>State/Country:</b>	PENNSYLVANIA	
<b>Postal Code:</b>	19010	
<b>PROPERTY NUMBERS Total: 3</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Patent Number:</b>	8286667	
<b>Patent Number:</b>	6821928	
<b>Patent Number:</b>	10278380	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(626)577-8800	
<i>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.</i>		
<b>Phone:</b>	6267959900	
<b>Email:</b>	pto@lewisroca.com	
<b>Correspondent Name:</b>	RYAN M. SWANK	
<b>Address Line 1:</b>	P.O. BOX 29001	
<b>Address Line 4:</b>	GLENDALE, CALIFORNIA 91209-9001	
<b>ATTORNEY DOCKET NUMBER:</b>	411106-00055	
<b>NAME OF SUBMITTER:</b>	COLLEEN TOOMEY	
<b>SIGNATURE:</b>	/COLLEEN TOOMEY/	
<b>DATE SIGNED:</b>	01/26/2023	
<b>Total Attachments: 10</b>		
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## **ASSIGNMENT**

**WHEREAS, A.I. INNOVATIONS, N.V.**, a Limited Liability Company under the laws of Curacao, having a place of business at 112 Oak Drive, San Rafael, California 94901 (hereafter, together with any successors, legal representatives, or assigns thereof, called "ASSIGNOR"), is the former assignee of the Patents and Patent Applications described and listed in Schedules A and B, attached hereto;

**AND WHEREAS, CAST ENVIRONMENTAL SOLUTIONS, LLC**, a Delaware Limited Liability Company, having a place of business at 422 Caversham Road, Bryn Mawr, Pennsylvania 19010 (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE"), wants to acquire the entire right, title, and interest in and to all Patents and Patent Applications described and listed in Schedules A and B attached hereto, and all inventions therein;

**NOW, THEREFORE**, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR does hereby sell, assign, transfer, and set over to ASSIGNEE the entire right, title, and interest in and to all Patents and Patent Applications described and listed in Schedules A and B attached hereto and all continuations, divisions, reexaminations, reissues, and substitutes thereof and all inventions therein, including all priority rights associated therewith, and including the right to sue or otherwise bring action and to collect and receive damages therefrom for past infringement thereof;

**ASSIGNOR HEREBY** authorizes and requests the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said improvements to ASSIGNEE in accordance with the terms of this Assignment;

**ASSIGNOR** also hereby irrevocably assigns, transfers, conveys, and delivers to ASSIGNEE all of ASSIGNOR's right, title, and interest in and to Trade Secrets and Know-How corresponding to ROOTGUARD MASTERBATCH COMPOUNDING TECHNIQUE, including all priority rights under applicable international, multilateral, and bilateral treaties and conventions, said right, title, and interest to be held and enjoyed by ASSIGNEE as fully and exclusively as it would have been held and enjoyed by ASSIGNOR had this assignment not been made, and ASSIGNEE shall have all benefits, privileges, causes of action, claims, and remedies arising out of or relating to the Trade Secrets and Know-How, the exploitation thereof, and the use and ownership of any of the ASSIGNEE Trade Secrets and Know-How, including but not limited to: (i) any and all remedies against and for past, present, or future misappropriation or unauthorized disclosure of the Trade Secrets and Know-How; and (ii) any and all rights to enforce, settle any disputes, and retain all proceeds from any such actions;

**ASSIGNOR** hereby covenants that it has full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict herewith;

**EXCEPT** as set forth in this Agreement, ASSIGNOR shall be relieved of all future obligations relating to said Patents and Patent Applications and to said Trade Secrets and Know-How

IN TESTIMONY WHEREOF, I hereunto set my hand

this 09 day of Jan 2023, 2022

**A. I. Innovations N.V.**

By   
Rodney Ruskin

Title \_\_\_\_\_

this \_\_\_\_\_ day of \_\_\_\_\_, 2022

**Cast Environmental Solutions, LLC**

By \_\_\_\_\_  
Sean Martin

Title \_\_\_\_\_

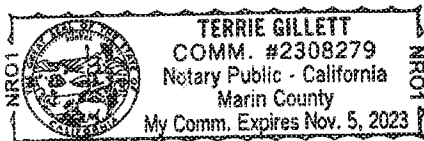
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA )  
COUNTY OF Marin )

On JAN 09 2023 before me,  
Terrie Gillett, Notary Public, Notary Public, personally appeared  
Rodney RUSKIN, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

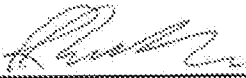


Terrie Gillett  
Signature of Notary (Seal)  
Terrie Gillett, Notary Public

IN TESTIMONY WHEREOF, I hereunto set my hand

this 30 day of August, 2022

A. I. Innovations N.V.

By   
Rodney Ruskin

Title Chairman

this 13 day of September, 2022

Cast Environmental Solutions, LLC

By   
Fabio Terlevich

Title Chairman

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF PENNSYLVANIA )

COUNTY OF Montgomery )

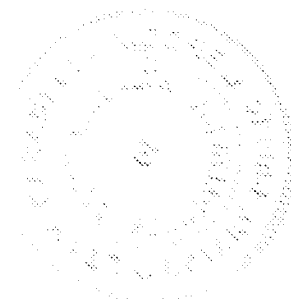
On September 15, 2022 before me,  
Leah Farabelli Moore, Notary Public, personally appeared  
Fabio Terlevich, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Pennsylvania that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Leah Farabelli Moore  
Signature of Notary (Seal)

Commonwealth of Pennsylvania - Notary Seal  
LEAH FARABELLI MOORE - Notary Public  
Montgomery County  
My Commission Expires April 16, 2026  
Commission Number 1282919



## SCHEDULE A

Issued U.S. Patents  
Former Assignee: A.I. Innovations N.V.

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
PREVENTION OF BACTERIAL ADHESION IRRIGATION CONDUITS	12/383733	8286667	March 27, 2009	October 16, 2012
METHOD TO REDUCE THE RATE OF DIFFUSION OF SLOW-RELEASE MATERIALS THROUGH POLYMERS AND PROCESS FOR MAKING DRIP IRRIGATION DEVICES WITH LONG-TERM CONTROL OF ROOT GROWTH	10/284862	6821928	October 31, 2002	November 23, 2004
RODENT, WORM AND INSECT RESISTANT IRRIGATION PIPE AND METHOD OF MANUFACTURE	15/225740	10278380	August 1, 2016	May 7, 2019



## SCHEDULE B

### Pending and Issued Foreign Patents/Patent Applications Former Assignee: A. I. Innovations N.V.

#### ARGENTINA

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	P160101384	AR104615B1	May 12, 2016	September 30, 2019

#### AUSTRALIA

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	2016203084	2016203084	May 12, 2016	October 26, 2017

#### CANADA

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	2929360	2929360	May 6, 2016	June 26, 2018

#### CHINA

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	201610318029	ZL201610318029.3	May 12, 2016	December 6, 2019

# COLOMBIA

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
A SUBSURFACE DRIP IRRIGATION DEVICE AND METHOD FOR DELIVERING A HERBICIDE CONTAINED WITHIN THE SAMEE	16126031	41556	May 13, 2016	June 14, 2018

# EUROPEAN UNION

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	EU App. No. 16169556.4 Bulgaria EPC Cyprus France Germany Greece Hungary Italy Netherlands Poland Portugal Romania Slovenia Spain Turkey United Kingdom	EU Patent No. 3092893 Germany Patent No. 602016016539.2 Hungary Patent No. E046560 Italy Patent No. 502019000083702 Turkey Patent No. 2019/13385	May 13, 2016	July 10, 2019

# INDIA

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	201614016094	Pending	May 9, 2016	

**IRAN**

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	139550140003001000	Pending	May 10, 2016	

**MEXICO**

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	MX/a/2016/006089	372058	May 10, 2016	March 5, 2020

**NEW ZEALAND**

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	719722	719722	May 4, 2016	October 3, 2017

**PERU**

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	618-2016	9961	May 12, 2016	December 31, 2019

**RUSSIA**

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	2016118416	2650373	May 12, 2016	April 11, 2018

**SOUTH AFRICA**

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	2016/03199	2016/03199	May 11, 2016	August 30, 2017

**UNITED KINGDOM**

Name of Patent	App. No.	Patent No.	Filing Date	Issue Date
ROOT INTRUSION PROTECTION OF SUBSURFACE DRIP IRRIGATION PIPE	16169556.4	3092893	May 13, 2016	July 10, 2019