

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6932446

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	JAMES CHARLES JURANITCH	06/08/2020
RECEIVING PARTY DATA		
Name:	XDI HOLDINGS, LLC	
Street Address:	360 ROUTE 101, SUITE 13C	
City:	BEDFORD	
State/Country:	NEW HAMPSHIRE	
Postal Code:	03110	
PROPERTY NUMBERS Total: 3		
Property Type	Number	
Application Number:	17326640	
Application Number:	17318744	
Application Number:	17392492	
CORRESPONDENCE DATA		
Fax Number:		
<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>		
Email:	MN-IPMail@Dykema.com	
Correspondent Name:	REED R. HEIMBECHER / DYKEMA GOSSETT PLLC	
Address Line 1:	90 SOUTH SEVENTH STREET	
Address Line 2:	4000 WELLS FARGO CENTER	
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402	
ATTORNEY DOCKET NUMBER:	065992-014051,16051,17051	
NAME OF SUBMITTER:	LAURA L DEBOUCHE	
SIGNATURE:	/Laura DeBouche/	
DATE SIGNED:	09/23/2021	
Total Attachments: 13		
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ASSIGNMENT

WHEREAS I, **James Charles Juranitch** of 714 NE 20th Avenue, Fort Lauderdale, Florida 33304, United States of America, hereinafter **ASSIGNOR**, have invented certain new and useful improvements in certain inventions represented by the patents and/or patent applications listed on EXHIBIT A attached hereto, hereinafter THE INVENTIONS;

AND WHEREAS **XDI Holdings, LLC**, a corporation organized and existing under the laws of the State of Delaware, and having a business address at 360 Route 101, Suite 13C, Bedford, New Hampshire 03110, United States of America, hereinafter **ASSIGNEE**, desires to acquire the entire right, title, and interest in, to, and under THE INVENTIONS and any and all patents or additional patents to be obtained therefor throughout the world;

NOW, THEREFORE, for and in consideration of good and valuable consideration to me in hand paid by ASSIGNEE, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do hereby sell, assign, and transfer unto ASSIGNEE, its successors and assigns, my entire right, title, and interest in and to THE INVENTIONS; all related applications, including provisionals, nonprovisionals, divisions, continuations, continuations-in-part, reissues, or renewals thereof; and any patents, both foreign and domestic, that have issued or that may or shall issue, including all of my entire rights under any and all international conventions;

AND I HEREBY authorize ASSIGNEE, its successors and assigns, or anyone it may properly designate, to apply for patents, in its own name if desired, in any and all countries, and additionally to claim priority to the filing date of any application and otherwise to take advantage of the provisions of any and all international conventions;

AND I HEREBY authorize and request any official of any State whose duty consists of issuing patents, or other evidence or forms of any industrial property protection for THE INVENTIONS, to issue same to ASSIGNEE, its successors and assigns, in accordance herewith;

AND I HEREBY covenant and agree with ASSIGNEE, its successors and assigns, that I have the full right to convey the entire interest assigned herein, and that I have not executed, and will not execute, any agreement in conflict herewith, and that I will not do any act whatsoever conflicting with these presents, and that I or my successors, assigns, executors, or administrators will at any time upon request, without further or additional consideration, but at the expense of ASSIGNEE, its successors and assigns, communicate to ASSIGNEE, its successors and assigns, any facts known to me respecting THE INVENTIONS, and testify in any legal proceedings, sign any lawful papers, execute any original, divisional, continuation, continuation-in-part, and reissue applications, make any rightful oaths or declarations, and generally do such additional acts as ASSIGNEE, its successors and assigns, may deem necessary or desirable to obtain and enforce proper protection for THE INVENTIONS throughout the world;

AND, WITHOUT LIMITING THE FOREGOING, I HEREBY grant, convey, sell, assign, transfer, and deliver to ASSIGNEE all of the following rights and property with regard to THE INVENTIONS: (a) any and all claims for damages by way of past, present, and future infringement, if any, of any of the rights described

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herein, with the right to sue for and collect such damages for use or infringement of the intellectual property rights identified herein; (b) all licenses or other rights, if any, to use any inventions or patents, including all license fees and royalties arising from use to the extent permitted by license rights; and (c) all proceeds of the foregoing, including, without limitation, all payments under insurance or any indemnity or warranty payable with respect to any of the foregoing;

IN TESTIMONY WHEREOF, ASSIGNOR hereunto set ASSIGNOR's hand on the under-mentioned date and delivered this Assignment.

Date: 6/8/20

James Charles Juranitch
James Charles Juranitch

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared **James Charles Juranitch**, to me known and known to me to be the person of that name, who signed the foregoing Assignment and acknowledged that execution of the same was a free act and deed.

6/8/20
(Date)

BROWARD COUNTY
(Place)

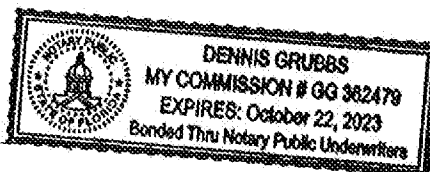
SEAL

10/22/23
(Commission Expiry Date)

(Notary Public: Signature)

(Notary Public: Printed Name)

DENNIS GRUBBS



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SAID ASSIGNEE HEREBY acknowledges the aforesaid statements and accepts the aforesaid assignment, transfer, and set over of THE INVENTIONS;

AND, IN TESTIMONY WHEREOF, said ASSIGNEE hereunto sets its hand on the under-mentioned day and year.

6/8/20
(Date)

ASSIGNEE: **XDI Holdings, LLC**

Prasanth Jiravich
(Signature)

By:

Prasanth Jiravich
(Printed Name)

Its:

Secretary & Treasurer
(Title)

TODAY, BEFORE ME, a Notary Public in and for the under-mentioned place, personally appeared the above named representative of **XDI Holdings, LLC**, to me known and known to me to be the person of that name, who signed this Assignment and acknowledged that execution of the same was a free act and deed. Further, this representative of ASSIGNEE presented to me evidence of his authority to act on behalf of ASSIGNEE.

6/8/20
(Date)

BROWARD COUNTY
(Place)

SEAL

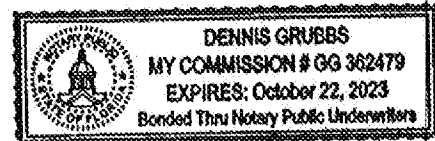
10/22/23
(Commission Expiry Date)

(Notary Public: Signature)

Dennis Grubbs

(Notary Public: Printed Name)

DENNIS GRUBBS



Eric Lewis
(Witness: Signature)

Eric Lewis
(Witness: Printed Name)

ASSIGNOR's Initials

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Exhibit A

CTRY ID	TITLE	APPLICATION NO.	FILING DATE	PUBLICATION NO.	INVENTORSHIP
US	PLASMA ASSISTED DIRTY WATER ONCE THROUGH STEAM GENERATION SYSTEM, APPARATUS AND METHOD	62/160,118	12-May-2015		Reynolds, Alan Craig Juranitch, James Charles Skinner, Raymond Clifford
US	PLASMA ASSISTED DIRTY WATER ONCE THROUGH STEAM GENERATION SYSTEM, APPARATUS AND METHOD	15/152,501	11-May-2016	US 2016-0333746 A1	Reynolds, Alan Craig Juranitch, James Charles Skinner, Raymond Clifford
WO	PLASMA ASSISTED DIRTY WATER ONCE THROUGH STEAM GENERATION SYSTEM, APPARATUS AND METHOD	PCT/US2016/031938	11-May-2016	WO 201/183249 A1	Reynolds, Alan Craig Juranitch, James Charles Skinner, Raymond Clifford
US	PLASMA ASSISTED, DIRTY WATER, DIRECT STEAM GENERATION SYSTEM, APPARATUS AND METHOD	62/166,536	26-May-2015		Juranitch, James Charles
US	PLASMA ASSISTED, DIRTY WATER, DIRECT STEAM GENERATION SYSTEM, APPARATUS AND METHOD	15/166,109	26-May-2016	US 2016-0348895 A1	Juranitch, James Charles
WO	PLASMA ASSISTED, DIRTY WATER, DIRECT STEAM GENERATION SYSTEM, APPARATUS AND METHOD	PCT/US2016/034449	26-May-2016	WO 2016/191609 A1	Juranitch, James Charles

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Exhibit A

CTRY ID	TITLE	APPLICATION NO.	FILING DATE	PUBLICATION NO.	INVENTORSHIP
CA	PLASMA ASSISTED, DIRTY WATER, DIRECT STEAM GENERATION SYSTEM, APPARATUS AND METHOD	2,986,916	26-May-2016		Juranitch, James Charles
US	PLASMA ASSISTED, DIRTY WATER, DIRECT STEAM GENERATION SYSTEM, APPARATUS AND METHOD	62/222,660	23-Sep-2015		Juranitch, James Charles
US	DIRTY WATER, DIRECT STEAM GENERATION SYSTEM, APPARATUS AND METHOD	62/236,075	1-Oct-2015		Juranitch, James Charles
US	METHOD, APPARATUS, AND SYSTEM FOR ENHANCED OIL AND GAS RECOVERY WITH SUPER FOCUSED HEAT	62/258,512	22-Nov-2015		Juranitch, James Charles
WO	METHOD, APPARATUS, AND SYSTEM FOR ENHANCED OIL AND GAS RECOVERY WITH SUPER FOCUSED HEAT	PCT/US2016/063339	22-Nov-2016	WO 2017/087989 A1	Juranitch, James Charles
US	METHOD, APPARATUS, AND SYSTEM FOR ENHANCED OIL AND GAS RECOVERY WITH SUPER FOCUSED HEAT	15/778,010	22-May-2018	US 2018-0347329 A1	Juranitch, James Charles

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Exhibit A

CTRY ID	TITLE	APPLICATION NO.	FILING DATE	PUBLICATION NO.	INVENTORSHIP
CA	METHOD, APPARATUS, AND SYSTEM FOR ENHANCED OIL AND GAS RECOVERY WITH SUPER FOCUSED HEAT	3,005,960	22-Nov-2016		Juranitch, James Charles
US	METHOD, APPARATUS AND SYSTEM FOR ENHANCED OIL AND GAS RECOVERY WITH DIRECT STEAM GENERATION, MULTIPHASE CLOSE COUPLED HEAT EXCHANGER SYSTEM, SUPER FOCUSED HEAT	62/258,513	22-Nov-2015		Juranitch, James Charles
WO	METHOD, APPARATUS AND SYSTEM FOR ENHANCED OIL AND GAS RECOVERY WITH DIRECT STEAM GENERATION, MULTIPHASE CLOSE COUPLED HEAT EXCHANGER SYSTEM, SUPER FOCUSED HEAT	PCT/US2016/063358	22-Nov-2016	WO 2017/087990 A1	Juranitch, James Charles
CA	ENHANCED OIL AND GAS RECOVERY WITH DIRECT STEAM GENERATION	3,005,897	22-Nov-2016		Juranitch, James Charles

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Exhibit A

CTRY ID	TITLE	APPLICATION NO.	FILING DATE	PUBLICATION NO.	INVENTORSHIP
US	METHOD, APPARATUS AND SYSTEM FOR ENHANCED OIL AND GAS RECOVERY WITH DIRECT STEAM GENERATION, MULTIPHASE CLOSE COUPLED HEAT EXCHANGER SYSTEM, SUPER FOCUSED HEAT	15/778,013	22-May-2018	US 2018-0320495 A1	Juranitch, James Charles
US	METHOD, APPARATUS AND SYSTEM FOR ENHANCED OIL AND GAS RECOVERY WITH DIRECT STEAM GENERATION, MULTIPHASE CLOSE COUPLED HEAT EXCHANGER SYSTEM, SUPER FOCUSED HEAT	62/258,514	22-Nov-2015		Juranitch, James Charles
US	METHOD, APPARATUS AND SYSTEM FOR ENHANCED OIL AND GAS RECOVERY WITH DIRECT STEAM GENERATION, MULTIPHASE CLOSE COUPLED HEAT EXCHANGER SYSTEM, SUPER FOCUSED HEAT	62/258,516	22-Nov-2015		Juranitch, James Charles

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Exhibit A

CTRY ID	TITLE	APPLICATION NO.	FILING DATE	PUBLICATION NO.	INVENTORSHIP
US	METHOD, APPARATUS, REAL TIME MODELING AND CONTROL SYSTEM, FOR STEAM AND SUPER HEAT FOR ENHANCED OIL AND GAS RECOVERY	62/290,214	2-Feb-2016		Juranitch, James Charles
US	METHOD, APPARATUS, REAL TIME MODELING AND CONTROL SYSTEM, FOR STEAM AND STEAM WITH SUPER-HEAT FOR ENHANCED OIL AND GAS RECOVERY	62/298,453	22-Feb-2016		Skinner, Raymond Clifford Reynolds, Alan Craig Juranitch, James Charles
WO	METHOD, APPARATUS, REAL TIME MODELING AND CONTROL SYSTEM, FOR STEAM AND SUPER-HEAT FOR ENHANCED OIL AND GAS RECOVERY	PCT/US2017/016244	2-Feb-2017	WO 2017/136571 A1	Juranitch, James Charles Skinner, Raymond Clifford Reynolds, Alan Craig
CA	METHOD, APPARATUS, REAL TIME MODELING AND CONTROL SYSTEM, FOR STEAM AND SUPER-HEAT FOR ENHANCED OIL AND GAS RECOVERY	3,012,348	2-Feb-2017		Juranitch, James Charles Skinner, Raymond Clifford Reynolds, Alan Craig

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Exhibit A

CTRY ID	TITLE	APPLICATION NO.	FILING DATE	PUBLICATION NO.	INVENTORSHIP
US	METHOD, APPARATUS, REAL TIME MODELING AND CONTROL SYSTEM, FOR STEAM AND SUPER-HEAT FOR ENHANCED OIL AND GAS RECOVERY	16/074,607	1-Aug-2018	US 2019-0032913 A1	Juranitch, James Charles Skinner, Raymond Clifford Reynolds, Alan Craig
US	IMPROVED DIRTY WATER AND EXHAUST CONSTITUENT FREE, DIRECT STEAM GENERATION, CONVAPORATOR SYSTEM, APPARATUS AND METHOD	62/301,521	29-Feb-2016		Reynolds, Alan Craig Skinner, Raymond Clifford Juranitch, James Charles
WO	IMPROVED DIRTY WATER AND EXHAUST CONSTITUENT FREE, DIRECT STEAM GENERATION, CONVAPORATOR SYSTEM, APPARATUS AND METHOD	PCT/US2017/019978	28-Feb-2017	WO 2017/151635 A1	Reynolds, Alan Craig Juranitch, James Charles Skinner, Raymond Clifford
CA	IMPROVED DIRTY WATER AND EXHAUST CONSTITUENT FREE, DIRECT STEAM GENERATION, CONVAPORATOR SYSTEM, APPARATUS AND METHOD	3,012,359	28-Feb-2017		Reynolds, Alan Craig Juranitch, James Charles Skinner, Raymond Clifford

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Exhibit A

CTRY ID	TITLE	APPLICATION NO.	FILING DATE	PUBLICATION NO.	INVENTORSHIP
US	IMPROVED DIRTY WATER AND EXHAUST CONSTITUENT FREE, DIRECT STEAM GENERATION, CONVAPORATOR SYSTEM, APPARATUS AND METHOD	16/077,975	14-Aug-2018		Reynolds, Alan Craig Juranitch, James Charles Skinner, Raymond Clifford
US	CONTINUOUS CHAMBER CAPILLARY CONTROL SYSTEM, METHOD, AND APPARATUS	62/301,527	29-Feb-2016		Juranitch, James Charles
WO	CONTINUOUS CHAMBER CAPILLARY CONTROL SYSTEM, METHOD, AND APPARATUS	PCT/US2017/019983	28-Feb-2017	WO 2017/151640 A1	Juranitch, James Charles
CA	CONTINUOUS CHAMBER CAPILLARY CONTROL SYSTEM, METHOD, AND APPARATUS	3,016,208	28-Feb-2017		Juranitch, James Charles
US	CONTINUOUS CHAMBER CAPILLARY CONTROL SYSTEM, METHOD, AND APPARATUS	16/080,496	28-Aug-2018	US 2019-0063200 A1	Juranitch, James Charles
US	LARGE SCALE COST EFFECTIVE DIRECT STEAM GENERATOR SYSTEM, METHOD, AND APPARATUS	62/381,983	31-Aug-2016		Juranitch, James Charles Reynolds, Alan Craig Juranitch, Thomas Raymond Skinner, Raymond Clifford

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Exhibit A

CTRY ID	TITLE	APPLICATION NO.	FILING DATE	PUBLICATION NO.	INVENTORSHIP
WO	LARGE SCALE COST EFFECTIVE DIRECT STEAM GENERATOR SYSTEM, METHOD, AND APPARATUS	PCT/US2017/049613	31-Aug-2017	WO 2018/045169 A1	Juranitch, James Charles Reynolds, Alan Craig Juranitch, Thomas Raymond Skinner, Raymond Clifford
CA	LARGE SCALE COST EFFECTIVE DIRECT STEAM GENERATOR SYSTEM, METHOD, AND APPARATUS	3,035,200	31-Aug-2017		Juranitch, James Charles Reynolds, Alan Craig Juranitch, Thomas Raymond Skinner, Raymond Clifford
US	LARGE SCALE COST EFFECTIVE DIRECT STEAM GENERATOR SYSTEM, METHOD, AND APPARATUS	16/329,471	28-Feb-2019		Juranitch, James Charles Reynolds, Alan Craig Juranitch, Thomas Raymond Skinner, Raymond Clifford
US	COMPLETIONS FOR WELL ZONE CONTROL	62/416,095	1-Nov-2016		Reynolds, Alan Craig Juranitch, James Charles
WO	COMPLETIONS FOR WELL ZONE CONTROL	PCT/US2017/059501	1-Nov-2017	WO 2018/085373 A1	Reynolds, Alan Craig Juranitch, James Charles
CA	COMPLETIONS FOR WELL ZONE CONTROL	3,042,516	1-Nov-2017		Reynolds, Alan Craig Juranitch, James Charles.
US	COMPLETIONS FOR WELL ZONE CONTROL	16/346,439	30-Apr-2019		Reynolds, Alan Craig Juranitch, James Charles
US	DIRTY WATER DISTILLATION AND SALT HARVESTING SYSTEM, METHOD, AND APPARATUS	62/424,504	20-Nov-2016		Juranitch, Thomas Raymond Juranitch, James Charles Skinner, Raymond Clifford Reynolds, Alan Craig
WO	DIRTY WATER DISTILLATION AND SALT HARVESTING SYSTEM, METHOD, AND APPARATUS	PCT/US2017/062571	20-Nov-2017	WO 2018/094338 A1	Juranitch, Thomas Raymond Juranitch, James Charles Skinner, Raymond Clifford Reynolds, Alan Craig

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CTRY ID	TITLE	APPLICATION NO.	FILING DATE	PUBLICATION NO.	INVENTORSHIP
CA	DIRTY WATER DISTILLATION AND SALT HARVESTING SYSTEM, METHOD, AND APPARATUS	3,042,885	20-Nov-2017		Juranitch, Thomas Raymond Juranitch, James Charles Skinner, Raymond Clifford Reynolds, Alan Craig
US	DIRTY WATER DISTILLATION AND SALT HARVESTING SYSTEM, METHOD, AND APPARATUS	16/461,296	15-May-2019		Juranitch, Thomas Raymond Juranitch, James Charles Skinner, Raymond Clifford Reynolds, Alan Craig
US	LARGE SCALE COST EFFECTIVE DIRECT STEAM GENERATOR SYSTEM, METHOD, AND APPARATUS	62/460,650	17-Feb-2017		Skinner, Raymond Clifford Juranitch, Thomas Raymond Reynolds, Alan Craig Juranitch, James Charles
WO	LARGE SCALE COST EFFECTIVE DIRECT STEAM GENERATOR SYSTEM, METHOD, AND APPARATUS	PCT/US2018/018615	19-Feb-2018	WO 2018/152464 A1	Skinner, Raymond Clifford Juranitch, Thomas Raymond Reynolds, Alan Craig Juranitch, James Charles
US	DIRTY WATER DISTILLATION AND SALT HARVESTING SYSTEM, METHOD, AND APPARATUS	62/460,657	17-Feb-2017		Reynolds, Alan Craig Skinner, Raymond Clifford Juranitch, Thomas Raymond Juranitch, James Charles
WO	DIRTY WATER DISTILLATION AND SALT HARVESTING SYSTEM, METHOD, AND APPARATUS	PCT/US2018/018614	29-Jan-2018	WO 2018/152463 A1	Reynolds, Alan Craig Skinner, Raymond Clifford Juranitch, Thomas Raymond Juranitch, James Charles
US	CONTROLLED FLUID CONCENTRATOR	62/506,285	15-May-2017		Juranitch, James Charles
WO	CONTROLLED FLUID CONCENTRATOR	PCT/US2018/032752	15-May-2018	WO 2018/213299 A1	Juranitch, James Charles
US	CENTRAL PROCESSING FACILITY, DIRECT CONTACT STEAM GENERATION OPTIMIZATION	62/593,462	1-Dec-2017		Juranitch, James Charles

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Exhibit A

CTRY ID	TITLE	APPLICATION NO.	FILING DATE	PUBLICATION NO.	INVENTORSHIP
WO	CENTRAL PROCESSING FACILITY, DIRECT CONTACT STEAM GENERATION OPTIMIZATION	PCT/US2018/063627	3-Dec-2018	WO 2019/109080 A1	Juranitch, James Charles
US	DIRTY WATER TREATMENT OPTIMIZATION	62/644,198	16-Mar-2018		Juranitch, James Charles
WO	DIRTY WATER TREATMENT OPTIMIZATION	PCT/US2019/022704	18-Mar-2019		Juranitch, James Charles
US	DIRTY WATER TREATMENT OPTIMIZATION	62/693,749	3-Jul-2018		Juranitch, James Charles
US	SIMULTANEOUS OPTIMIZATION OF FUEL ENERGY, SITE OPEX, WASTE HEAT RECOVERY AND DIRTY WATER TREATMENT	62/757,621	8-Nov-2018		Juranitch, James Charles

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