PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4590709

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CERAMATEC, INC.	08/22/2017

RECEIVING PARTY DATA

Name:	FIELD UPGRADING USA, INC.	
Street Address: C/O GREENBERG TRAURIG LLP		
Internal Address:	1200 SEVENTEENTH STREET, SUITE 2400	
City:	DENVER	
State/Country:	COLORADO	
Postal Code:	80202	

PROPERTY NUMBERS Total: 81

Property Type	Number
Patent Number:	8216722
Patent Number:	8012633
Patent Number:	8323817
Patent Number:	8859141
Patent Number:	9263770
Patent Number:	8771855
Patent Number:	8968902
Application Number:	13307123
Patent Number:	9431682
Patent Number:	9413036
Application Number:	14511031
Application Number:	14956078
Application Number:	14205019
Application Number:	14205772
Application Number:	14298302
Application Number:	14040241
Patent Number:	9431656
Patent Number:	9431681
Patent Number:	9537179

PATENT REEL: 043833 FRAME: 0665

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Property Type	Number
Application Number:	14539435
Patent Number:	9553337
Application Number:	15130741
Application Number:	14824500
Application Number:	15102816
Patent Number:	8012621
Patent Number:	9209445
Patent Number:	8159192
Patent Number:	8722221
Application Number:	60711252
Application Number:	60990579
Application Number:	61096605
Application Number:	61149671
Application Number:	61160621
Application Number:	61258563
Application Number:	61372763
Application Number:	61410812
Application Number:	61418749
Application Number:	61484406
Application Number:	61723122
Application Number:	61707239
Application Number:	61777967
Application Number:	62087507
Application Number:	61697608
Application Number:	61779857
Application Number:	61779866
Application Number:	61831691
Application Number:	61829136
Application Number:	61874114
Application Number:	61891744
Application Number:	61898617
Application Number:	61882516
Application Number:	61903261
Application Number:	62149234
Application Number:	62171695
Application Number:	61438328
Application Number:	60970179
Application Number:	60829499

Property Type	Number
Application Number:	60990556
Application Number:	60970178
Application Number:	60522945
Application Number:	61166597
Application Number:	61166612
Application Number:	61294394
Application Number:	60909735
Application Number:	60758246
Application Number:	60985033
Application Number:	61091627
Application Number:	61120721
Application Number:	61120737
Application Number:	61299244
Application Number:	61320204
Application Number:	62312885
Application Number:	61619170
Application Number:	61772306
Application Number:	60973403
Application Number:	61084090
Application Number:	61319180
Application Number:	61736444
Application Number:	61781530
Application Number:	61831682
Application Number:	61919170

CORRESPONDENCE DATA

Fax Number: (202)672-5399

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.

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Address Line 4: WASHINGTON, D.C. 20007

ATTORNEY DOCKET NUMBER:	111147-0101
NAME OF SUBMITTER:	JOSEPH P. MEARA
SIGNATURE:	/Joseph P. Meara/
DATE SIGNED:	09/12/2017

Total Attachments: 13 source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page1.tif source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page2.tif source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page3.tif source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page4.tif source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page5.tif source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page6.tif source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page7.tif source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page8.tif source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page9.tif source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page10.tif source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page10.tif source=Recordable Assignment - Field Upgrading USA Inc. re_ USA - Executed (2)#page11.tif

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ASSIGNMENT

We, Ceramatec, Inc., whose full post office address is, 2425 South 900 West, Salt Lake

City, Utah 84119, United States of America, in consideration of the sum of Ten Dollars (\$10.00)

and other good and valuable consideration, the receipt and sufficiency of which are hereby

acknowledged, do hereby sell and assign to Field Upgrading USA, Inc., its successors and

assigns, whose full post office address is c/o Greenberg Traurig LLP, 1200 Seventeeth Street,

Suite 2400, Denver, Colorado, USA, 80202, effective August 22, 2017, all our right, title and

interest in the United States of America in and to the United States Patent applications and issued

patents attached as Schedule 1 and the inventions claimed therein, including any and all priority

rights derived therefrom, and the right, where such right can be legally exercised, in its own

name to apply for and obtain Letters Patent, re-examinations, reissues, divisions, renewals,

extensions, provisionals, continuations and continuations-in-part thereof in the United States, and

the entire interest in any Letters Patent, re-examinations, reissues, divisions, renewals,

extensions, provisionals, continuations and continuations-in-part thereof which may be granted

on any such applications, including any and all divisionals and continuations of said applications,

in the United States of America, including any reissues and extensions thereof, inclusive of the

right to sue for past infringements, the same to be held and enjoyed by Field Upgrading USA,

Inc. as fully and entirely as the same would have been held and enjoyed by Ceramatec Inc. had

the assignment, transfer and conveyance not been made.

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PATENT

REEL: 043833 FRAME: 0669

SIGNED at Denver, Colorado, United States of America, this 22 day of August, 2017.

Ceramatec, Inc.

Signature of Witness

By: Dane A. Bartlett

Title: Secretary

8000.2.22	Batteries	ALKALI METAL SEAWATER BATTERY	United States of America	Issued	12/558,363 8,323,817
8000.2.26	Batteries	Solid-State Sodium-Based Secondary Cell Having a Sodium Ion Conductive Ceramic Separator	United States of America	Issuèd	12/940,864 8,859,141
8000.2.26.1DI V	Batteries	Method for Providing Electrical Potential from a Sodium-Based Secondary Cell	United States of America	Issued	14/469,865 9,263,770
8000.2.28	Batteries	ALKALI METAL AQUEOUS BATTERY	United States of America	Issued	13/195,431 8,771,855
8000.2.29	Batteries	Low Temperature Molten Sodium Secondary Cell with Sodium Ion Conductive Electrolyte Membrane	United States of America	Issued	13/290,716 8,968,902
8000.2.30	Batteries	MODERATE TEMPERATURE SODIUM BATTERY	United States of America	Pending	13/307,123 2012/0141856
8000,2.32	Batteries	Degradation Protection of Solid Alkali Ion Conductive Electrolyte Membrane	United States of America	Issued	14/072,468 9,431,682
8000.2.33	Batteries	Battery Charge Transfer Mechanisms	United States of America	Pending	14/040,241 2014/0030571
8000.2.36	Batteries	Sodium-Halogen Secondary Cell	United States of America	Issued	14/019,651 9,413,036
8000.2.36.2CI P	Batteries	Sodium-Halogen Secondary Cell	United States of America	Published	14/511,031 2015/0030896
8000.2.36.3CI P	Batteries	Sodium-Halogen Secondary Cell	United States of America	Pending	14/956.078 2016/0087313
8000.2.40	Batteries	Low Temperature Secondary Cell With Sodium Intercalation Electrode	United States of America	Pending	14/205,019 2014/0212707
8000.2.41	Batteries	Low Temperature Battery with Molten Sodium-FSA Electrolyte	United States of America	Pending	14/205,772 2014/0210422
8000.2.44	Batteries	Low Viscosity/High Conductivity Sodium Haloaluminate Electrolyte	United States of America	Pending	14/298,302 2014/0363717
8000.2.45	Batteries	Hybrid Molten/Solid Sodium Anode for Room/Intermediate Temperature Electric Vehicle Battery	United States of America	Issued	14/292,130 9,431,656

8000.2.47	Batteries	High Temperature Sodium Battery with High Energy Efficiency	United States of America	Issued	14/478,676 9,431,681
8000.2.48	Batteries	Intermediate Temperature Sodium-Metal Halide Battery	United States of America	Issued	14/496,509 9,537,179
8000.2.49	Batteries	Separator for Alkali Metal Ion Battery	United States of America	Allowed	14/539,435
8000.2.51	Batteries	Sodium Secondary Battery	United States of America	Issued	14/555,852 9,553,337
8000.2.53	Batteries	Sodium-Aluminum Battery with Sodium Ion Conductive Ceramic Separator	United States of America	Pending	15/130,741 2016/0308253
8000.2.54	Bátteries	Sodium Secondary Battery	United States of America	Pending	14/824,500 2016/0049658
8000.2.58	Batteries	NA Based Secondary Battery	United States of America	Pending	15/102,816 20160315345
8000.2.6	Batteries	Nickel-Metal Hydride Battery Using Alkali Ion Conducting Separator	United States of America	Issued	11/944,719 8,012,621
8000.2.6.1CIP	Batteries	Nickel-Metal Hydride/Hydrogen Hybrid Battery Using Alkali Ion Conducting Separator	United States of America	Issued	13/364,169 9,209,445
8000.2.6.2DIV	Batteries	Nickel-Metal Hydride Battery Using Alkali Ion Conducting Separator	United States of America	Issued	13/189,176 8,159,192
8000.2.6.3DIV	Batteries	Method of Discharging a Nickel-Metal Hydride Battery	United States of America	Issued	13/189,177 8,722,221
6000.2.13p (080505AJ)	Electroche mical Cell for Production of Synthetic Gas Using Atmospheri c Air and W	Prov - ORG	United States of America	Completed	60/711,252
8000.2.14p	Post Retort, Pre-Hydro- Treat Process for Removal of Nitrogen, Sulfur and Metals	Prov - ORG	United States of America	Completed	60/990,579
8000.2.22p	ALKALI METAL SEA WATER BATTERY	Prov - ORG	United States of America	Completed	61/096,605

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8000.2.23p	Electroche	Prov - ORG	United States	Completed	61/149,671
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8000.2.31p	ALKALI	Prov - ORG	United States	Completed	61/484,406
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	Electrolyte				
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8000.2.33p	Charge	Prov - ORG	United States	Completed	61/707,239
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8000.2.44p	Low	Prov - ORG	United States	Completed	61/831,691
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8000.2.45p	Hybrid	Prov - ORG	United States	Completed	61/829,136
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8000.2.47p	High	Prov - ORG	United States	Completed	61/874,114
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8000.2.48.1p	Intermediat	Prov - ORG	United States	Completed	61/891,744
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8000.2.48.2p	Intermediat	Prov - ORG	United States	Completed	£1/000 /17
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8000.2.48p	Intermediat	Prov - ORG	United States	Completed	61/882,516
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	for Alkali		of America		
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8000.2.52p	Sodium-	Prov - ORG	United States	Completed	62/149,234
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8000.2.53p	Sodium-	Prov - ORG	United States	Completed	62/171,695
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8000.2.6.1p	Nickel-	Prov - ORG	United States	Completed	61/438,328
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8000.2.11p	Advanced	Prov - ORG	United States	Completed	60/829,499
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•	Batteries		01121101101	ļ	
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	Ceramic				
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8000.2.13p	Solid	Prov - ORG	United States	Completed	60/990,556
•	Lithium		of America	Completed	00/770,000
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	Conductive				
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8000.2.8p	Hi Rate	Prov - ORG	United States	Completed	60/970,178
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5000.2.73p	Ceramic	Prov - ORG	United States	Closed	62/312,885
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	Honecomb Separator				
8000.2.35p	Alkali	Prov - ORG	United States	Completed	61/772,306
	Metal	Tion - Original - Orig	of America	Completed	01/7/2,300
	Intercalatio				
	n Material				
	as an				
	Electrode				
1	in a Secondary				
	Battery				
8000.2.10p	Advanced	Prov - ORG	United States	Closed	60/973,403
1	Radiation		of America		1000,100
	Tolerant				
	Lithium				
	Batteries Based on				
	Ceramic				
	Electrolyte				
	Separ				
8000.2.21p	ENERGY	Prov - ORG	United States	Completed	61/084,090
	SYSTEM		of America		
	WITH				
İ	LITHIUM WATER				
ļ	BATTERY				
	AND				
	FUEL				
	CELL			<u> </u>	
8000.2.27p	TUBULAR	Prov - ORG	United States	Completed	61/319,180
	METAL- AIR OR		of America		
	METAL-				
	SEA			i	
	WATER		İ		
	BATTERY		!	[
	AND		1		
	METHOD FOR				
	RELOADI				
	NG THAT				
	CAN H		L		
8000,2.38p	BATTERY	Prov - ORG	United States	Completed	61/736,444
	WITH		of America		
	BROMINE OR				
	BROMIDE				
	ELECTRO				
	DE AND				
	SODIUM		1		
	SELECTIV		1		
	E MEMDD A		!		
	MEMBRA NE - NOT				
	SK				
	,		<u> </u>		<u> </u>

8000000	CODUNA	n one	1		
8000.2.39p	SODIUM-	Prov - ORG	United States	Completed	61/781,530
	HALOGE		of America		
	N N				
	SECONDA				
	RY FLOW				
	CELL			ı	
	(Governme			-	
	nt Funding				
	- Contract				
	No.118987				
	5 - %				
8000.2.43p	Solid-State-	Prov - ORG	United States	Unfiled	
	Sodium-		of America		
	Sulfur/Poly				
	sulfide				
	Cathode for				
	Intermediat				
	e				
	Temperatur				
	e Sodiu				<u> </u>
8000.2.46p	In situ	Prov - ORG	United States	Closed	61/831,682
	Methods		of America		
	for				
	Preparation				
	of Sodium				
	Haloalumin				
	ate				
	Catholytes				
	(No Govt.		!		
	Fun				
8000.2.50p	New	Prov - ORG	United States	Reassigned	61/919,170
	Constructio		of America	_	
	n Method				
	for				
	Intermediat				
•	е				
	Temperatur				
	e ZEBRA				
	Battery				

RECORDED: 09/12/2017