

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5627689

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GENERAL ELECTRIC COMPANY	06/17/2019
GE FUEL CELLS LLC	06/17/2019
YSZ ENERGY INC.	06/17/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ANGELA B FREEMAN
<b>Street Address:</b>	301 EAST MARKET STREET
<b>City:</b>	INDIANAPOLIS
<b>State/Country:</b>	INDIANA
<b>Postal Code:</b>	46204
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15605227
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(317)231-7433
<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>	3172317479
<b>Email:</b>	gtwyman@btlaw.com
<b>Correspondent Name:</b>	ANGELA B. FREEMAN
<b>Address Line 1:</b>	11 SOUTH MERIDIAN STREET
<b>Address Line 2:</b>	BARNES & THORNBURG LLP
<b>Address Line 4:</b>	INDIANAPOLIS, INDIANA 46204
<b>ATTORNEY DOCKET NUMBER:</b>	29766-296814
<b>NAME OF SUBMITTER:</b>	ANGELA B. FREEMAN
<b>SIGNATURE:</b>	/Angela B. Freeman/
<b>DATE SIGNED:</b>	07/19/2019
<b>Total Attachments: 22</b>	
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**INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT**

This INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT (this “Agreement”) is made and entered into as of June 17, 2019 by and among General Electric Company, a New York corporation (“Parent”); GE Fuel Cells LLC, a Delaware limited liability company (“GE Fuel Cells”); YSZ Energy Inc., a Delaware corporation (“YSZ Energy” and together with Parent and GE Fuel Cells, the “Assignor”); and Cummins Enterprise LLC, an Indiana limited liability company (“Cummins” or “Assignee”). Assignor and Assignee are collectively referred to in this Agreement as the “Parties.”

**RECITALS**

WHEREAS, pursuant to that certain Asset Purchase Agreement, dated as of June 17, 2019, by and among Assignor and Assignee (the “Asset Purchase Agreement”), the Parties desire that Assignor transfer to Assignee all of the right, title and interest of Assignor in and to the Intellectual Property Assets referred to in the Asset Purchase Agreement, which include, but are not limited to, the patents and patent applications set forth on Attachment A attached hereto (the “Assigned IP”); and

WHEREAS, Assignee wishes to acquire all of Assignor’s right, title and interest in and to the Assigned IP, and Assignor wishes to assign such right, title and interest in and to such Assigned IP to Assignee.

NOW, THEREFORE, in consideration of the foregoing recitals and the mutual representations, warranties, covenants and agreements set forth herein, the Parties hereby agree as follows:

1. Certain Defined Terms. Unless otherwise defined herein, all capitalized terms used herein shall have the meanings ascribed to such terms in the Asset Purchase Agreement.
2. Transfer of Assigned IP. Assignor does hereby grant, bargain, sell, transfer, convey, assign, alienate, release and deliver to Assignee and its successors and assigns, and Assignee does hereby accept, all of Assignor’s right, title and interest in and to the Assigned IP, including any renewals and extensions of the registrations that are or may be secured under the laws of the United States and all foreign countries, now or hereafter in effect, as well as all causes of action and enforcement rights, whether currently pending, filed or otherwise, for the Assigned IP, including all rights to damages, injunctive relief and other remedies for past, current and future infringement of the Assigned IP.
3. Further Assurances. Assignor covenants and agrees that, at any time and from time to time upon the request of Assignee, Assignor shall provide any further necessary documentation and do all further acts reasonably requested by Assignee or necessary to confirm and perfect title in and to the Assigned IP in Assignee, its successors and assigns.
4. Entire Agreement. This Agreement and the applicable provisions of the Asset Purchase Agreement, the Intellectual Property Cross License Agreement and the Transition Services Agreement constitute the sole and entire agreement of the Parties to this Agreement with respect to the subject matter contained herein and therein, and supersede all prior and contemporaneous understandings and agreements, both written and oral, with respect to such subject matter, including that certain SOFC Term Sheet, dated as of March 18, 2019, by and between Cummins Inc., an Indiana corporation, and Parent (the “Letter of Intent”). In the event of any inconsistency between

the statements in the body of this Agreement and those in the other Ancillary Documents and the Disclosure Schedules (other than an exception expressly set forth as such in the Disclosure Schedules) or the Letter of Intent, the statements in the Asset Purchase Agreement will control.

5. Successors and Assigns. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns.

6. Governing Law and Venue. This Agreement shall be governed by and construed in accordance with the internal the laws of the State of Delaware without giving effect to any choice or conflict of law provision or rule (whether of the State of Delaware or any other jurisdiction).

7. Dispute Resolution. Any dispute relating to, or arising out of, any provision of this Agreement shall be resolved in accordance with Section 8.11 of the Asset Purchase Agreement.

8. Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be considered an original instrument, but all of which shall be considered one and the same agreement, and shall become binding when one or more counterparts have been signed by each of the Parties and delivered to each of the Parties. Delivery of an executed counterpart of a signature page to this Agreement shall be as effective as delivery of a manually executed counterpart of this Agreement. Facsimile or e-mail transmission of .pdf signatures or other electronic copies of signatures shall be deemed to be originals.


Remainder of page intentionally left blank.

IN WITNESS WHEREOF, Assignor and Assignee have caused this Agreement to be executed by their duly authorized representatives as of the Effective Date.

**ASSIGNOR:**

**PARENT:**

GENERAL ELECTRIC COMPANY

By:   
Name: Patrick Patnode  
Title: President, GE Licensing

**GE FUEL CELLS:**

GE FUEL CELLS LLC

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**YSZ ENERGY:**

YSZ ENERGY INC.

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

IN WITNESS WHEREOF, Assignor and Assignee have caused this Agreement to be executed by their duly authorized representatives as of the Effective Date.

**ASSIGNOR:**

**PARENT:**

GENERAL ELECTRIC COMPANY

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**GE FUEL CELLS:**

GE FUEL CELLS LLC

By: Michael Petraci  
Name: Michael Petraci  
Title: President

**YSZ ENERGY:**

YSZ ENERGY INC.

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

*[Signature Page to Intellectual Property Assignment Agreement]*

IN WITNESS WHEREOF, Assignor and Assignee have caused this Agreement to be executed by their duly authorized representatives as of the Effective Date.

**ASSIGNOR:**

**PARENT:**

GENERAL ELECTRIC COMPANY

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

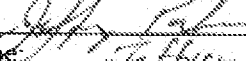
**GE FUEL CELLS:**

GE FUEL CELLS LLC

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**YSZ ENERGY:**

YSZ ENERGY INC.

By:  \_\_\_\_\_  
Name: Jeffrey Parker  
Title: Director

*[Signature Page to Intellectual Property Assignment Agreement]*

**ASSIGNEE:**

**CUMMINS:**

CUMMINS ENTERPRISE LLC

By: 

Name: Thaddeus B. Ewald

Title: President

*[Signature Page to Intellectual Property Assignment Agreement]*



**Attachment A**

1. See attached list.

Schedule 1.08(e) - Patents										#
Patent Reference	AppNo	PubNo	Title	Country	Filed Date	Status	Characterization	Comments	Column1	
282569-US-1	US14/983004	US10097009	METHOD AND SYSTEMS FOR MANAGING POWER SYSTEMS	USA	29-Dec-15	Granted	Could potentially be used in other GE Business	Relates to power system with multiple power sources and power controllers	1	
282569-CN-2	CN201611244988	CN106933293	METHOD AND SYSTEMS FOR MANAGING POWER SYSTEMS	China	29-Dec-16	Examination Requested	Could potentially be used in other GE Business	Relates to power system with multiple power sources and power controllers	2	
282569-EP-3	EP20160203682	EP3188337	METHOD AND SYSTEMS FOR MANAGING POWER SYSTEMS	European Patent	13-Dec-16	Granted	Could potentially be used in other GE Business	Relates to power system with multiple power sources and power controllers	3	
282569-KR-4	KR20160180115	KR20170078531	METHOD AND SYSTEMS FOR MANAGING POWER SYSTEMS	Korea	27-Dec-16	Application	Could potentially be used in other GE Business	Relates to power system with multiple power sources and power controllers	4	
282569-JP-5	JP20160242823	JP2017121169	METHOD AND SYSTEMS FOR MANAGING POWER SYSTEMS	Japan	15-Dec-16	Application	Could potentially be used in other GE Business	Relates to power system with multiple power sources and power controllers	5	
282569-FR-6	EP20160203682	EP3188337	METHOD AND SYSTEMS FOR MANAGING POWER SYSTEMS	France	13-Dec-16	Granted	Could potentially be used in other GE Business	Relates to power system with multiple power sources and power controllers	6	
282569-GB-7	EP20160203682	EP3188337	METHOD AND SYSTEMS FOR MANAGING POWER SYSTEMS	United Kingdom	13-Dec-16	Granted	Could potentially be used in other GE Business	Relates to power system with multiple power sources and power controllers	7	
282569-DE-8	EP20160203682	EP3188337	METHOD AND SYSTEMS FOR MANAGING POWER SYSTEMS FLUID PASSAGES FOR POWER GENERATION EQUIPMENT	Germany	13-Dec-16	Granted	Could potentially be used in other GE Business	Relates to power system with multiple power sources and power controllers	8	
120373-US-1	US10/063467	US7022429	INTERCONNECT SUPPORTED FUEL CELL ASSEMBLY AND PREFORM	USA	25-Apr-02	Granted	Exclusive use for GE SOFC Business		9	
120539-US-1	US10/166909	US7575821	INTERCONNECT SUPPORTED ELECTROLYZER ASSEMBLY, PREFORM AND METHOD OF FABRICATION	USA	11-Jun-02	Granted	Exclusive use for GE SOFC Business		10	
120539-US-7	US10/955508	US7595122	INTERCONNECT SUPPORTED FUEL CELL ASSEMBLY, PREFORM AND METHOD OF FABRICATION	USA	1-Oct-04	Granted	Exclusive use for GE SOFC Business		11	
120539-US-13	US11/757370	US7651810	METHOD FOR FABRICATING AN ARRAY OF ELECTRODE AND ELECTROLYTE MATERIALS FOR USE IN SOLID OXIDE FUEL CELLS	USA	3-Jun-07	Granted	Exclusive use for GE SOFC Business		12	
120588-US-1	US10/268420	US7910158	FLOW DISRUPTOR ENHANCED FUEL CELL	USA	10-Oct-02	Granted	Exclusive use for GE SOFC Business		13	
121105-US-1	US10/246066	US7090942	CELL	USA	18-Sep-02	Granted	Exclusive use for GE SOFC Business		14	

123320-US-1	US09/415467	US6838204	METHOD AND APPARATUS FOR FUEL CELL PACKAGING	USA	8-Oct-99	Granted	Exclusive use for GE SOFC Business	15
123335-US-1	US09/520276	US6589681	SERIES/PARALLEL CONNECTION OF PLANAR FUEL CELL STACKS	USA	6-Mar-00	Granted	Exclusive use for GE SOFC Business	16
123338-US-3	US09/827843	US6803136	STACKING AND MANIFOLDING OF UNITIZED SOLID OXIDE FUEL CELLS	USA	5-Apr-01	Granted	Exclusive use for GE SOFC Business	17
123579-US-1	US10/038471	US6756144	INTEGRATED RECUPERATION LOOP IN FUEL CELL STACK	USA	3-Jan-02	Granted	Exclusive use for GE SOFC Business	18
123800-US-1	US09/832625	US6632554	HIGH PERFORMANCE CATHODES FOR SOLID OXIDE FUEL CELLS	USA	10-Apr-01	Granted	Exclusive use for GE SOFC Business	19
125646-US-1	US10/315750	US7329471	METHODS AND APPARATUS FOR ASSEMBLING SOLID OXIDE FUEL CELLS	USA	10-Dec-02	Granted	Exclusive use for GE SOFC Business	20
126347-US-1	US10/248166	US7410713	INTEGRATED FUEL CELL HYBRID POWER PLANT WITH RE-CIRCULATED AIR AND FUEL FLOW	USA	23-Dec-02	Granted	Exclusive use for GE SOFC Business	21
128613-US-1	US10/665942	US7358005	METHODS AND APPARATUS FOR ASSEMBLING SOLID OXIDE FUEL CELLS   METHODS AND APPARATUS FOR ISOLATING SOLID OXIDE FUEL CELLS	USA	18-Sep-03	Granted	Exclusive use for GE SOFC Business	22
130024-US-1	US10/881407	US7803473	INTEGRATED POWER PLANT AND SYSTEM AND METHOD INCORPORATING THE SAME	USA	30-Jun-04	Granted	Exclusive use for GE SOFC Business	23
153593-US-1	US10/711477	US7521387	ALKALI-FREE COMPOSITE SEALANT MATERIALS FOR SOLID OXIDE FUEL CELLS	USA	21-Sep-04	Granted	Could potentially be used in other GE Business	24
155242-US-1	US11/593927	US7745029	FERRITIC STEELS FOR SOLID OXIDE FUEL CELLS AND OTHER HIGH TEMPERATURE APPLICATIONS	USA	7-Nov-06	Granted	Could potentially be used in other GE Business	25
161443-US-1	US11/271946	US7645535	METHOD AND MATERIALS FOR BONDING ELECTRODES TO INTERCONNECT LAYERS IN SOLID OXIDE FUEL CELL STACKS	USA	14-Nov-05	Granted	Exclusive use for GE SOFC Business	26
163855-US-1	US11/235555	US9985295	SOLID OXIDE FUEL CELL STRUCTURES, AND RELATED COMPOSITIONS AND PROCESSES	USA	26-Sep-05	Granted	Exclusive use for GE SOFC Business	27
177728-US-1	US11/172262	US8216323	SYSTEM AND METHOD FOR HYDROGEN PRODUCTION	USA	30-Jun-05	Granted	Exclusive use for GE SOFC Business	28
186214-US-1	US11/307265	US8021795	METHOD FOR MANUFACTURING SOLID OXIDE ELECTROCHEMICAL DEVICES	USA	30-Jan-06	Granted	Exclusive use for GE SOFC Business	29
202252-US-1	US12/199937	US8163434	BARRIER COATINGS FOR INTERCONNECTS; RELATED DEVICES, AND METHODS OF FORMING	USA	28-Aug-08	Granted	Exclusive use for GE SOFC Business	30
214413-US-1	US11/640064	US7748259	SYSTEMS AND METHODS FOR SOLID OXIDE FUEL CELL SURFACE ANALYSIS	USA	15-Dec-06	Granted	Exclusive use for GE SOFC Business	31
215520-US-1	US11/854702	US837939	METHOD OF PROCESSING A CERAMIC LAYER AND RELATED ARTICLES	USA	13-Sep-07	Granted	Could potentially be used in other GE Business	32
215816-US-1	US11/863747	US8617762	METHOD OF PROCESSING A CERAMIC ELECTROLYTE, AND RELATED ARTICLES	USA	28-Sep-07	Granted	Exclusive use for GE SOFC Business	33

250546-US-1	US13/076664	US8778545	RECIRCULATION COMPLEX FOR INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	USA	31-Mar-11	Granted	Exclusive use for GE SOFC Business	34
258210-US-1	US13/907647	US9819038	FUEL CELL REFORMING SYSTEM WITH CARBON DIOXIDE REMOVAL	USA	31-May-13	Granted	Exclusive use for GE SOFC Business	35
263720-US-1	US14/145088	US20150188173	SOLID OXIDE FUEL CELL SYSTEMS SOLID OXIDE FUEL CELL-BASED POWER GENERATION AND DELIVERY SYSTEM AND METHOD OF OPERATING THE SAME	USA	31-Dec-13	Allowed	Exclusive use for GE SOFC Business	36
274249-US-1	US14/445696	US9819192	POWER GENERATION SYSTEMS AND METHODS UTILIZING CASCADED FUEL CELLS	USA	29-Jul-14	Granted	Exclusive use for GE SOFC Business	37
275432-US-1	US14/321124	US10256496	CELLS	USA	1-Jul-14	Granted	Exclusive use for GE SOFC Business	38
275750-US-2	US14/876438	US20160104906	SYSTEM AND METHOD FOR CONTROLLING FLOW RATE RATIO FUEL CELL SYSTEM AND CONTROLLING METHOD THEREOF	USA	6-Oct-15	Allowed	Could potentially be used in other GE Business	39
277551-US-5	US15/160032	US20160344048	FUEL CELL MODULE AND METHOD OF OPERATING SUCH MODULE	USA	20-May-16	Allowed	Exclusive use for GE SOFC Business	40
281080-US-1	US14/867409	US20170092976	FUEL CELL MODULE INCLUDING HEAT EXCHANGER AND METHOD OF OPERATING SUCH MODULE	USA	28-Sep-15	Published	Exclusive use for GE SOFC Business	41
281932-US-1	US14/867391	US20170092964	FUEL CELL SYSTEM, OPERATING METHOD THEREOF AND FUEL CELL POWER PLANT	USA	28-Sep-15	Published	Exclusive use for GE SOFC Business	42
282657-US-2	US15/379342	US20170179503	FUEL CELL SYSTEM AND OPERATING METHOD THEREOF	USA	14-Dec-16	Published	Exclusive use for GE SOFC Business	43
285297-US-2	US15/605227	US20170346118	FUEL CELL SYSTEM AND OPERATING METHOD THEREOF	USA	25-May-17	Published	Exclusive use for GE SOFC Business	44
313250-US-1	US15/263505	US20180076472	INTEGRATED FUEL CELL SYSTEMS	USA	13-Sep-16	Allowed	Exclusive use for GE SOFC Business	45
313534-US-1	US15/281740	US20180097250	AN INTERCONNECT FOR AN INTERNALLY-MANIFOLDED SOLID OXIDE FUEL CELL STACK; AND RELATED METHODS AND POWER SYSTEMS	USA	30-Sep-16	Published	Exclusive use for GE SOFC Business	46
313958-US-1	US15/234865	US20180048002	MULTI-STACK FUEL CELL SYSTEMS AND HEAT EXCHANGER ASSEMBLIES METHOD AND APPARATUS FOR DETECTING DAMAGE IN FUEL CELL STACKS, AND ADJUSTING OPERATIONAL CHARACTERISTICS IN FUEL CELL SYSTEMS	USA	11-Aug-16	Published	Exclusive use for GE SOFC Business	47
313963-US-1	US15/382847	US20180175418	FUEL CELL SYSTEM AND SHUTDOWN METHOD THEREOF	USA	19-Dec-16	Published	Exclusive use for GE SOFC Business	48
314012-US-2	US15/795084	US20180145351	POWER GENERATION SYSTEM USING CASCADED FUEL CELLS AND ASSOCIATED METHODS THEREOF	USA	26-Oct-17	Published	Exclusive use for GE SOFC Business	49
314017-US-1	US15/343318	US20180131020	SYSTEMS AND METHODS FOR DISTRIBUTED FAULT MANAGEMENT IN FUEL CELL SYSTEMS	USA	4-Nov-16	Published	Exclusive use for GE SOFC Business	50
314224-US-1	US15/400190	US20180198143	CELLS	USA	6-Jan-17	Published	Could potentially be used in other GE Business	51

314300-US-1	US15/331421	US10283804	FLANGE ASSEMBLY FOR USE WITH A SOLID OXIDE FUEL CELL SYSTEM	USA	21-Oct-16	Granted	Exclusive use for GE SOFC Business	52
314638-US-1	US15/419776	US20180219373	AUXILIARY POWER CIRCUIT AND METHOD OF USE	USA	30-Jan-17	Published	Could potentially be used in other GE Business	53
314657-US-1	US15/397422	US20180191010	PROTECTION CIRCUIT FOR A FUEL CELL AND METHOD OF USE	USA	3-Jan-17	Published	Could potentially be used in other GE Business	54
120373-JP-7	JP20030119169	JP4642325	DIMPLED BAFFLE COOLING ENHANCEMENT FOR SOFC LAYERS	Japan	24-Apr-03	Granted	Exclusive use for GE SOFC Business	55
121105-JP-6	JP20030323817	JP5057634	FLOW DISRUPTOR ENHANCED FUEL CELL	Japan	17-Sep-03	Granted	Exclusive use for GE SOFC Business	56
122595-JP-7	JP20010531169	JP5101775	Unit solid oxide type fuel cell	Japan	12-Oct-00	Granted	Exclusive use for GE SOFC Business	57
123800-JP-4	JP20020581613	JP4981239	Advanced cathode null anode of solid-state oxide	Japan	5-Apr-02	Granted	Exclusive use for GE SOFC Business	58
125646-JP-7	JP20030409747	JP4764597	Solid oxide fuel cell and fuel cell stack system and method for	Japan	9-Dec-03	Granted	Exclusive use for GE SOFC Business	59
149801-JP-6	JP20060104881	JP5486758	MANUFACTURING FUEL CELL STACKS METHODS AND APPARATUS FOR CONTROLLED SOLID OXIDE FUEL CELL (SOFC)/TURBINE HYBRID POWER GENERATION	Japan	6-Apr-06	Granted	Exclusive use for GE SOFC Business	60
153489-JP-4	JP20060108848	JP5213309	METHODS AND APPARATUS FOR CONTROLLED SOLID OXIDE FUEL CELL (SOFC)/TURBINE HYBRID POWER GENERATION	Japan	11-Apr-06	Granted	Exclusive use for GE SOFC Business	61
153489-DE-6	EP20060251993	EP1713141	GENERATION METHODS AND APPARATUS FOR CONTROLLED SOLID OXIDE FUEL CELL (SOFC)/TURBINE HYBRID POWER GENERATION	Germany	10-Apr-06	Granted	Exclusive use for GE SOFC Business	62
153489-FR-7	EP20060251993	EP1713141	GENERATION METHODS AND APPARATUS FOR CONTROLLED SOLID OXIDE FUEL CELL (SOFC)/TURBINE HYBRID POWER GENERATION	France	10-Apr-06	Granted	Exclusive use for GE SOFC Business	63
153489-GB-8	EP20060251993	EP1713141	GENERATION METHODS AND APPARATUS FOR CONTROLLED SOLID OXIDE FUEL CELL (SOFC)/TURBINE HYBRID POWER GENERATION	United Kingdom	10-Apr-06	Granted	Exclusive use for GE SOFC Business	64
155242-JP-2	JP20070284683	JP5306631	FERRITIC STEELS FOR SOLID OXIDE FUEL CELLS AND OTHER HIGH TEMPERATURE APPLICATIONS	Japan	1-Nov-07	Granted	Could potentially be used in other GE Business	65
177728-CN-3	CN2006823168	CN101208263	SYSTEM AND METHOD FOR HYDROGEN PRODUCTION	China	19-Jun-06	Granted	Exclusive use for GE SOFC Business	66
177728-JP-5	JP20080519368	JP5148489	SYSTEM AND METHOD FOR HYDROGEN PRODUCTION	Japan	19-Jun-06	Granted	Exclusive use for GE SOFC Business	67
177728-DE-6	EP20060785109	EP1904401	SYSTEM AND METHOD FOR HYDROGEN PRODUCTION	Germany	19-Jun-06	Granted	Exclusive use for GE SOFC Business	68
177728-FR-7	EP20060785109	EP1904401	SYSTEM AND METHOD FOR HYDROGEN PRODUCTION	France	19-Jun-06	Granted	Exclusive use for GE SOFC Business	69
177728-GB-8	EP20060785109	EP1904401	SYSTEM AND METHOD FOR HYDROGEN PRODUCTION	United Kingdom	19-Jun-06	Granted	Exclusive use for GE SOFC Business	70
177728-CH-9	EP20060785109	EP1904401	SYSTEM AND METHOD FOR HYDROGEN PRODUCTION	Switzerland	19-Jun-06	Granted	Exclusive use for GE SOFC Business	71

186214-JP-4	JP20060324941	JP5318345	Method for Manufacturing Solid Oxide Electrochemical Devices BARRIER COATINGS FOR INTERCONNECTS, RELATED DEVICES, AND METHODS OF FORMING CERAMIC ELECTROLYTE STRUCTURE AND METHOD OF FORMING; AND RELATED ARTICLES	Japan	30-Nov-06	Granted	Exclusive use for GE SOFC Business		72
202252-JP-2	JP20090197542	JP5607903	AND METHODS OF FORMING CERAMIC ELECTROLYTE STRUCTURE AND METHOD OF FORMING; AND RELATED ARTICLES	Japan	28-Aug-09	Granted	Exclusive use for GE SOFC Business		73
206325-JP-2	JP20070307222	JP5355878	METHOD OF PROCESSING A CERAMIC LAYER AND RELATED ARTICLES COMPOSITE CERAMIC ELECTROLYTE STRUCTURE AND METHOD OF FORMING; AND RELATED ARTICLES	Japan	28-Nov-07	Granted	Exclusive use for GE SOFC Business	Relates to method of filling microcracks in a ceramic layer	74
215520-JP-2	JP20080232782	JP5552222		Japan	11-Sep-08	Granted	Could potentially be used in other GE Business		75
215723-JP-2	JP20080138810	JP5389378		Japan	28-May-08	Granted	Exclusive use for GE SOFC Business		76
215816-JP-2	JP20080243476	JP5550223	A METHOD OF PROCESSING A CERAMIC ELECTROLYTE AND RELATED ARTICLES RECIRCULATION COMPLEX FOR INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	Japan	24-Sep-08	Granted	Exclusive use for GE SOFC Business		77
250546-CN-3	CN2012816188	CN103443982	INCREASING YIELD FROM FUEL CELL RECIRCULATION COMPLEX FOR INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE RECIRCULATION COMPLEX FOR	China	29-Mar-12	Granted	Exclusive use for GE SOFC Business		78
250546-JP-4	JP20140502784	JP6063922	INCREASING YIELD FROM FUEL CELL RECIRCULATION COMPLEX FOR	Japan	29-Mar-12	Granted	Exclusive use for GE SOFC Business		79
250546-RU-5	RU20130143732	RU2589884	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE RECIRCULATION COMPLEX FOR	Russian Federation	29-Mar-12	Granted	Exclusive use for GE SOFC Business		80
250546-AT-7	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE RECIRCULATION COMPLEX FOR	Austria	29-Mar-12	Granted	Exclusive use for GE SOFC Business		81
250546-BE-8	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE RECIRCULATION COMPLEX FOR	Belgium	29-Mar-12	Granted	Exclusive use for GE SOFC Business		82
250546-CH-9	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE RECIRCULATION COMPLEX FOR	Switzerland	29-Mar-12	Granted	Exclusive use for GE SOFC Business		83
250546-DE-10	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE RECIRCULATION COMPLEX FOR	Germany	29-Mar-12	Granted	Exclusive use for GE SOFC Business		84
250546-DK-11	DK20120722564T	DK2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE RECIRCULATION COMPLEX FOR	Denmark	29-Mar-12	Granted	Exclusive use for GE SOFC Business		85
250546-ES-12	ES20120722564T	ES2575730	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE RECIRCULATION COMPLEX FOR	Spain	29-Mar-12	Granted	Exclusive use for GE SOFC Business		86
250546-FI-13	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE RECIRCULATION COMPLEX FOR	Finland	29-Mar-12	Granted	Exclusive use for GE SOFC Business		87
250546-FR-14	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE RECIRCULATION COMPLEX FOR	France	29-Mar-12	Granted	Exclusive use for GE SOFC Business		88
250546-GB-15	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	United Kingdom	29-Mar-12	Granted	Exclusive use for GE SOFC Business		89

250546-GR-16	EP20120722564	EP2692007	RECIRCULATION COMPLEX FOR INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	Greece	29-Mar-12	Granted	Exclusive use for GE SOFC Business	393
250546-IE-17	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	Ireland	29-Mar-12	Granted	Exclusive use for GE SOFC Business	391
250546-IT-18	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	Italy	29-Mar-12	Granted	Exclusive use for GE SOFC Business	392
250546-NL-19	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	Netherlands	29-Mar-12	Granted	Exclusive use for GE SOFC Business	393
250546-NO-20	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	Norway	29-Mar-12	Granted	Exclusive use for GE SOFC Business	394
250546-PL-21	PL12722564T	PL2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	Poland	29-Mar-12	Granted	Exclusive use for GE SOFC Business	395
250546-PT-22	PT20120722564T	PT2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	Portugal	29-Mar-12	Granted	Exclusive use for GE SOFC Business	396
250546-SE-23	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	Sweden	29-Mar-12	Granted	Exclusive use for GE SOFC Business	397
250546-TR-24	EP20120722564	EP2692007	INCREASING YIELD FROM FUEL CELL WITH CO2 CAPTURE	Turkey	29-Mar-12	Granted	Exclusive use for GE SOFC Business	398
255359-CN-3	CN20151150828	CN105047960	INTERCONNECT AND SOLID OXIDE FUEL CELL DEVICE	China	1-Apr-15	Published	Exclusive use for GE SOFC Business	399
255359-JP-4	JP20150065393	JP2016015308	INTERCONNECT AND SOLID OXIDE FUEL CELL DEVICE	Japan	27-Mar-15	Application	Exclusive use for GE SOFC Business	399
255359-KR-5	KR20150044049	KR20150114421	INTERCONNECT AND SOLID OXIDE FUEL CELL DEVICE	Korea	30-Mar-15	Application	Exclusive use for GE SOFC Business	399
263720-JP-3	JP20140259652	JP2015130337	SOLID-OXIDE FUEL CELL SYSTEMS	Japan	24-Dec-14	Application	Exclusive use for GE SOFC Business	392
263720-CN-4	CN20141845726	CN104752747	SOLID-OXIDE FUEL CELL SYSTEMS	China	31-Dec-14	Published	Exclusive use for GE SOFC Business	393
263720-KR-5	KR20140191866	KR20150079444	SOLID-OXIDE FUEL CELL SYSTEMS	Korea	29-Dec-14	Application	Exclusive use for GE SOFC Business	394
263720-DE-6	EP20140199454	EP2889942	SOLID-OXIDE FUEL CELL SYSTEMS	Germany	19-Dec-14	Granted	Exclusive use for GE SOFC Business	395
263720-FR-7	EP20140199454	EP2889942	SOLID-OXIDE FUEL CELL SYSTEMS	France	19-Dec-14	Granted	Exclusive use for GE SOFC Business	396
263720-GB-8	EP20140199454	EP2889942	SOLID-OXIDE FUEL CELL SYSTEMS	United Kingdom	19-Dec-14	Granted	Exclusive use for GE SOFC Business	397
263720-HU-9	EP20140199454	EP2889942	SOLID-OXIDE FUEL CELL SYSTEMS	Hungary	19-Dec-14	Granted	Exclusive use for GE SOFC Business	398
263720-NL-10	EP20140199454	EP2889942	SOLID-OXIDE FUEL CELL SYSTEMS	Netherlands	19-Dec-14	Granted	Exclusive use for GE SOFC Business	399
263720-NO-11	EP20140199454	EP2889942	SOLID-OXIDE FUEL CELL SYSTEMS	Norway	19-Dec-14	Granted	Exclusive use for GE SOFC Business	110
263720-SE-12	EP20140199454	EP2889942	SOLID-OXIDE FUEL CELL SYSTEMS	Sweden	19-Dec-14	Granted	Exclusive use for GE SOFC Business	111

274249-EP-2	EP20150177569	EP2980948	SOLID OXIDE FUEL CELL-BASED POWER GENERATION AND DELIVERY SYSTEM AND METHOD OF OPERATING THE SAME	European Patent	20-Jul-15	Published	Exclusive use for GE SOFC Business		112
274249-JP-3	JP20150145409	JP2016031932	SOLID OXIDE FUEL CELL-BASED POWER GENERATION AND DELIVERY SYSTEM AND METHOD OF OPERATING THE SAME	Japan	23-Jul-15	Application	Exclusive use for GE SOFC Business		113
274249-CN-4	CN20151453145	CN105322572	SOLID OXIDE FUEL CELL-BASED POWER GENERATION AND DELIVERY SYSTEM AND METHOD OF OPERATING THE SAME	China	29-Jul-15	Published	Exclusive use for GE SOFC Business		114
274249-KR-5	KR20150104194	KR20160014532	SAME POWER GENERATION SYSTEMS AND METHODS UTILIZING CASCADED FUEL CELLS	Korea	23-Jul-15	Application	Exclusive use for GE SOFC Business		115
275432-JP-3	JP20150129370	JP2016015318	POWER GENERATION SYSTEMS AND METHODS UTILIZING CASCADED FUEL CELLS	Japan	29-Jun-15	Application	Exclusive use for GE SOFC Business		116
275432-CN-4	CN20151375653	CN105244525	POWER GENERATION SYSTEMS AND METHODS UTILIZING CASCADED FUEL CELLS	China	1-Jul-15	Published	Exclusive use for GE SOFC Business		117
275432-KR-5	KR20150093989	KR20160008114	POWER GENERATION SYSTEMS AND METHODS UTILIZING CASCADED FUEL CELLS	Korea	1-Jul-15	Application	Exclusive use for GE SOFC Business		118
275432-DE-6	EP20150173808	EP2963722	METHODS UTILIZING CASCADED FUEL CELLS	Germany	25-Jun-15	Granted	Exclusive use for GE SOFC Business		119
275432-FR-7	EP20150173808	EP2963722	POWER GENERATION SYSTEMS AND METHODS UTILIZING CASCADED FUEL CELLS	France	25-Jun-15	Granted	Exclusive use for GE SOFC Business		120
275432-GB-8	EP20150173808	EP2963722	POWER GENERATION SYSTEMS AND METHODS UTILIZING CASCADED FUEL CELLS	United Kingdom	25-Jun-15	Granted	Exclusive use for GE SOFC Business		121
275432-IT-9	EP20150173808	EP2963722	METHODS UTILIZING CASCADED FUEL CELLS	Italy	25-Jun-15	Granted	Exclusive use for GE SOFC Business		122
275750-CN-1	CN20141525550	CN105576268	SYSTEM AND METHOD FOR CONTROLLING FLOW RATE RATIO	China	8-Oct-14	Granted	Could potentially be used in other GE Business	Relates to controlling a flow rate ratio at high temperatures	123
275750-EP-3	EP20150187115	EP3007026	SYSTEM AND METHOD FOR CONTROLLING FLOW RATE RATIO	European Patent	28-Sep-15	Granted	Could potentially be used in other GE Business	Relates to controlling a flow rate ratio at high temperatures	124
275750-JP-4	JP20150195526	JP2016076213	SYSTEM AND METHOD FOR CONTROLLING FLOW RATE RATIO	Japan	1-Oct-15	Application	Could potentially be used in other GE Business	Relates to controlling a flow rate ratio at high temperatures	125
275750-KR-5	KR20150139116	KR20160041783	SYSTEM AND METHOD FOR CONTROLLING FLOW RATE RATIO	Korea	2-Oct-15	Application	Could potentially be used in other GE Business	Relates to controlling a flow rate ratio at high temperatures	126
275750-DE-6	EP20150187115	EP3007026	SYSTEM AND METHOD FOR CONTROLLING FLOW RATE RATIO	Germany	28-Sep-15	Granted	Could potentially be used in other GE Business	Relates to controlling a flow rate ratio at high temperatures	127



275750-FR-7	EP20150187115	EP3007026	SYSTEM AND METHOD FOR CONTROLLING FLOW RATE RATIO	France	28-Sep-15	Granted	Could potentially be used in other GE Business	Relates to controlling a flow rate ratio at high temperatures	128
275750-GB-8	EP20150187115	EP3007026	SYSTEM AND METHOD FOR CONTROLLING FLOW RATE RATIO	United Kingdom	28-Sep-15	Granted	Could potentially be used in other GE Business	Relates to controlling a flow rate ratio at high temperatures	129
275750-IT-9	EP20150187115	EP3007026	SYSTEM AND METHOD FOR CONTROLLING FLOW RATE RATIO	Italy	28-Sep-15	Granted	Could potentially be used in other GE Business	Relates to controlling a flow rate ratio at high temperatures	130
277551-CN-1	CN20151258296	CN106299401	METHOD THEREOF	China	20-May-15	Published	Exclusive use for GE SOFC Business		131
277551-EP-2	EP20160169768	EP3096384	FUEL CELL SYSTEM AND CONTROLLING METHOD THEREOF	European Patent	16-May-16	Published	Exclusive use for GE SOFC Business		132
277551-KR-3	KR20160061250	KR20160137394	FUEL CELL SYSTEM AND CONTROLLING METHOD THEREOF	Korea	19-May-16	Application	Exclusive use for GE SOFC Business		133
277551-JP-4	JP20160097536	JP2016219413	FUEL CELL SYSTEM AND CONTROLLING METHOD THEREOF	Japan	16-May-16	Examined Requested	Exclusive use for GE SOFC Business		134
278638-CN-1	CN20171414461	CN108977242	COKE OVEN GAS PROCESSING SYSTEM AND METHOD THEREOF	China	5-Jun-17	Published	Exclusive use for GE SOFC Business		135
281080-EP-2	EP20160188775	EP3147985	FUEL CELL MODULE AND METHOD OF OPERATING SUCH MODULE	European Patent	14-Sep-16	Published	Exclusive use for GE SOFC Business		136
281080-KR-3	KR20160124684	KR20170037858	FUEL CELL MODULE AND METHOD OF OPERATING SUCH MODULE	Korea	28-Sep-16	Application	Exclusive use for GE SOFC Business		137
281080-JP-4	JP20160183595	JP2017069192	FUEL CELL MODULE AND METHOD OF OPERATING SUCH MODULE	Japan	21-Sep-16	Application	Exclusive use for GE SOFC Business		138
281080-CN-5	CN20161857755	CN106898806	FUEL CELL MODULE INCLUDING HEAT EXCHANGER AND METHOD OF OPERATING SUCH MODULE	China	28-Sep-16	Published	Exclusive use for GE SOFC Business		139
281932-CN-2	CN20161857511	CN106997957	FUEL CELL MODULE INCLUDING HEAT EXCHANGER AND METHOD OF OPERATING SUCH MODULE	China	28-Sep-16	Published	Exclusive use for GE SOFC Business		140
281932-EP-3	EP20160189764	EP3147984	EXCHANGER AND METHOD OF OPERATING SUCH MODULE	European Patent	20-Sep-16	Published	Exclusive use for GE SOFC Business		141
281932-JP-4	JP20160183596	JP2017076609	FUEL CELL MODULE INCLUDING HEAT EXCHANGER AND METHOD OF OPERATING SUCH MODULE	Japan	21-Sep-16	Application	Exclusive use for GE SOFC Business		142
281932-KR-5	KR20160122886	KR20170037834	FUEL CELL SYSTEM, OPERATING METHOD THEREOF AND FUEL CELL POWER PLANT	Korea	26-Sep-16	Application	Exclusive use for GE SOFC Business		143
282657-CN-1	CN20151962881	CN106910912	FUEL CELL SYSTEM, OPERATING METHOD THEREOF AND FUEL CELL POWER PLANT	China	18-Dec-15	Published	Exclusive use for GE SOFC Business		144
282657-EP-3	EP20160202588	EP3182493	METHOD THEREOF AND FUEL CELL FUEL CELL SYSTEM, OPERATING METHOD THEREOF AND FUEL CELL POWER PLANT	European Patent	7-Dec-16	Granted	Exclusive use for GE SOFC Business		145
282657-KR-4	KR20160167693	KR20170073487	FUEL CELL SYSTEM, OPERATING METHOD THEREOF AND FUEL CELL POWER PLANT	Korea	9-Dec-16	Application	Exclusive use for GE SOFC Business		146
282657-JP-5	JP20160240004	JP2017174799	METHOD THEREOF AND FUEL CELL POWER PLANT	Japan	12-Dec-16	Application	Exclusive use for GE SOFC Business		147

282657-FR-6	EP20160202588	EP3182493	FUEL CELL SYSTEM, OPERATING METHOD THEREOF AND FUEL CELL POWER PLANT	France	7-Dec-16	Granted	Exclusive use for GE SOFC Business	148
282657-DE-7	EP20160202588	EP3182493	METHOD THEREOF AND FUEL CELL POWER PLANT	Germany	7-Dec-16	Granted	Exclusive use for GE SOFC Business	149
282657-IT-8	EP20160202588	EP3182493	FUEL CELL SYSTEM, OPERATING METHOD THEREOF AND FUEL CELL POWER PLANT	Italy	7-Dec-16	Granted	Exclusive use for GE SOFC Business	150
282657-GB-9	EP20160202588	EP3182493	METHOD THEREOF AND FUEL CELL POWER PLANT	United Kingdom	7-Dec-16	Granted	Exclusive use for GE SOFC Business	151
285297-CN-1	CN20161363148	CN107464944	FUEL CELL SYSTEM AND OPERATING METHOD THEREOF	China	27-May-16	Published	Exclusive use for GE SOFC Business	152
285297-EP-3	EP20170171360	EP3249728	FUEL CELL SYSTEM AND OPERATING METHOD THEREOF	European Patent	16-May-17	Granted	Exclusive use for GE SOFC Business	153
285297-KR-4	KR20170064121	KR20170134235	FUEL CELL SYSTEM AND OPERATING METHOD THEREOF	Korea	24-May-17	Application	Exclusive use for GE SOFC Business	154
285297-JP-5	JP20170100488	JP2017216230	FUEL CELL SYSTEM AND OPERATING METHOD THEREOF	Japan	22-May-17	Application	Exclusive use for GE SOFC Business	155
285297-FR-6	EP20170171360	EP3249728	FUEL CELL SYSTEM AND OPERATING METHOD THEREOF	France	16-May-17	Granted	Exclusive use for GE SOFC Business	156
285297-DE-7	EP20170171360	EP3249728	FUEL CELL SYSTEM AND OPERATING METHOD THEREOF	Germany	16-May-17	Granted	Exclusive use for GE SOFC Business	157
285297-GB-8	EP20170171360	EP3249728	FUEL CELL SYSTEM AND OPERATING METHOD THEREOF	United Kingdom	16-May-17	Granted	Exclusive use for GE SOFC Business	158
287486-US-1	US15/652448	US20190027774	FUEL CELL STACK ASSEMBLY	USA	18-Jul-17	Published	Exclusive use for GE SOFC Business	159
287486-CN-2	CN20181789647	CN109273751	FUEL CELL STACK ASSEMBLY	China	18-Jul-18	Published	Exclusive use for GE SOFC Business	160
287486-EP-3	EP20180183616	EP3432403	FUEL CELL STACK ASSEMBLY	European Patent	16-Jul-18	Published	Exclusive use for GE SOFC Business	161
287486-JP-4	JP20180133820	JP2019024000	FUEL CELL STACK ASSEMBLY	Japan	17-Jul-18	Application	Exclusive use for GE SOFC Business	162
287486-KR-5	KR20180083012	KR20190009262	FUEL CELL STACK ASSEMBLY	Korea	17-Jul-18	Application	Exclusive use for GE SOFC Business	163
311310-CN-1	CN20171374463	CN108963305	FUEL CELL SYSTEM AND METHOD FOR INCREASING FUEL EFFICIENCY OF FUEL CELL SYSTEM	China	24-May-17	Published	Exclusive use for GE SOFC Business	164
313250-CN-2	CN20171823236	CN107819141	INTEGRATED FUEL CELL SYSTEMS	China	13-Sep-17	Published	Exclusive use for GE SOFC Business	165
313250-EP-3	EP20170189359	EP3293803	INTEGRATED FUEL CELL SYSTEMS	European Patent	5-Sep-17	Published	Exclusive use for GE SOFC Business	166
313250-KR-4	KR20170112597	KR20180029871	INTEGRATED FUEL CELL SYSTEMS	Korea	4-Sep-17	Application	Exclusive use for GE SOFC Business	167
313250-JP-5	JP20170166360	JP2018060780	INTEGRATED FUEL CELL SYSTEMS	Japan	31-Aug-17	Application	Exclusive use for GE SOFC Business	168
313534-CN-2	CN20171907102	CN107887623	INTERNAL MANIFOLDED SOLID OXIDE FUEL CELL STACK AND RELATED METHODS AND POWER SYSTEMS	China	29-Sep-17	Application	Exclusive use for GE SOFC Business	169

313534-KR-3	KR20170128071	KR20180036629	AN INTERCONNECT FOR AN INTERNALLY-MANIFOLDED SOLID OXIDE FUEL CELL STACK AND RELATED METHODS AND POWER SYSTEMS AN INTERCONNECT FOR AN INTERNALLY-MANIFOLDED SOLID OXIDE FUEL CELL STACK AND RELATED METHODS AND POWER SYSTEMS AN INTERCONNECT FOR AN INTERNALLY-MANIFOLDED SOLID OXIDE FUEL CELL STACK AND RELATED METHODS AND POWER SYSTEMS	Korea	29-Sep-17	Application	Exclusive use for GE SOFC Business	179
313534-EP-4	EP20170190671	EP3301747	AN INTERCONNECT FOR AN INTERNALLY-MANIFOLDED SOLID OXIDE FUEL CELL STACK AND RELATED METHODS AND POWER SYSTEMS	European Patent	12-Sep-17	Granted	Exclusive use for GE SOFC Business	171
313534-FR-5	EP20170190671	EP3301747	FUEL CELL STACK AND RELATED METHODS AND POWER SYSTEMS AN INTERCONNECT FOR AN INTERNALLY-MANIFOLDED SOLID OXIDE FUEL CELL STACK AND RELATED METHODS AND POWER SYSTEMS AN INTERCONNECT FOR AN INTERNALLY-MANIFOLDED SOLID OXIDE FUEL CELL STACK AND RELATED METHODS AND POWER SYSTEMS	France	12-Sep-17	Granted	Exclusive use for GE SOFC Business	172
313534-DE-6	EP20170190671	EP3301747	METHODS AND POWER SYSTEMS AN INTERCONNECT FOR AN INTERNALLY-MANIFOLDED SOLID OXIDE FUEL CELL STACK AND RELATED METHODS AND POWER SYSTEMS	Germany	12-Sep-17	Granted	Exclusive use for GE SOFC Business	173
313534-GB-7	EP20170190671	EP3301747	INTERNALLY-MANIFOLDED SOLID OXIDE FUEL CELL STACK AND RELATED METHODS AND POWER SYSTEMS	United Kingdom	12-Sep-17	Granted	Exclusive use for GE SOFC Business	174
313958-CN-2	CN20171686493	CN107732277	MULTI-STACK FUEL CELL SYSTEMS AND HEAT EXCHANGER ASSEMBLIES	China	11-Aug-17	Published	Exclusive use for GE SOFC Business	175
313958-EP-3	EP20170184449	EP3282513	MULTI-STACK FUEL CELL SYSTEMS AND HEAT EXCHANGER ASSEMBLIES	European Patent	2-Aug-17	Published	Exclusive use for GE SOFC Business	176
313958-JP-4	JP20170144990	JP2018041720	MULTI-STACK FUEL CELL SYSTEMS AND HEAT EXCHANGER ASSEMBLIES	Japan	27-Jul-17	Application	Exclusive use for GE SOFC Business	177
313958-KR-5	KR20170101684	KR20180018425	MULTI-STACK FUEL CELL SYSTEMS AND HEAT EXCHANGER ASSEMBLIES METHOD AND APPARATUS FOR DETECTING DAMAGE IN FUEL CELL STACKS, AND ADJUSTING OPERATIONAL CHARACTERISTICS IN FUEL CELL SYSTEMS	Korea	10-Aug-17	Application	Exclusive use for GE SOFC Business	178
313963-JP-2	JP20170232999	JP2018129290	DETECTING DAMAGE IN FUEL CELL STACKS, AND ADJUSTING OPERATIONAL CHARACTERISTICS IN FUEL CELL SYSTEMS	Japan	5-Dec-17	Application	Exclusive use for GE SOFC Business	179
313963-KR-3	KR20170173016	KR20180071176	METHOD AND APPARATUS FOR DETECTING DAMAGE IN FUEL CELL STACKS, AND ADJUSTING OPERATIONAL CHARACTERISTICS IN FUEL CELL SYSTEMS	Korea	15-Dec-17	Application	Exclusive use for GE SOFC Business	180
313963-CN-4	CN201711381346	CN108206293	DETECTING DAMAGE IN FUEL CELL STACKS, AND ADJUSTING OPERATIONAL CHARACTERISTICS IN FUEL CELL SYSTEMS	China	19-Dec-17	Published	Exclusive use for GE SOFC Business	181
314012-CN-1	CN201611041688	CN108091907	FUEL CELL SYSTEM AND SHUTDOWN METHOD THEREOF	China	22-Nov-16	Published	Exclusive use for GE SOFC Business	182
314012-JP-3	JP20170215178	JP2018139207	FUEL CELL SYSTEM AND SHUTDOWN METHOD THEREOF	Japan	8-Nov-17	Application	Exclusive use for GE SOFC Business	183
314012-KR-4	KR20170155633	KR20180057555	FUEL CELL SYSTEM AND SHUTDOWN METHOD THEREOF POWER GENERATION SYSTEM USING CASCADED FUEL CELLS AND ASSOCIATED METHODS THEREOF	Korea	21-Nov-17	Application	Exclusive use for GE SOFC Business	184
314017-JP-2	JP20170206710	JP2018137209	ASSOCIATED METHODS THEREOF	Japan	26-Oct-17	Application	Exclusive use for GE SOFC Business	185

314017-CN-3	CN201711075317	CN108023103	POWER GENERATION SYSTEM USING CASCADED FUEL CELLS AND ASSOCIATED METHODS THEREOF POWER GENERATION SYSTEM USING CASCADED FUEL CELLS AND ASSOCIATED METHODS THEREOF SYSTEM AND METHOD FOR SOLID OXIDE FUEL CELLS WITH STAGED FUEL SUPPLY	China	3-Nov-17	Published	Exclusive use for GE SOFC Business		1385
314017-KR-4	KR20170145212	KR20180050235	ASSOCIATED METHODS THEREOF SYSTEM AND METHOD FOR SOLID OXIDE FUEL CELLS WITH STAGED FUEL SUPPLY	Korea	2-Nov-17	Application	Exclusive use for GE SOFC Business		1387
314197-US-1	US15/471716	US20180287173	SYSTEM AND METHOD FOR SOLID OXIDE FUEL CELLS WITH STAGED FUEL SUPPLY	USA	28-Mar-17	Allowed	Exclusive use for GE SOFC Business		1388
314197-WO-2	WO2018US24743	WO2018183433	OXIDE FUEL CELLS WITH STAGED FUEL SUPPLY	Patent Coop. Treaty	28-Mar-18	Published	Exclusive use for GE SOFC Business	Relates to distributed fault management system, including a sensor on a fuel cell	1389
314224-CN-2	CN2018111534	CN108306029	SYSTEMS AND METHODS FOR DISTRIBUTED FAULT MANAGEMENT IN FUEL CELL SYSTEMS	China	5-Jan-18	Published	Could potentially be used in other GE Business	Relates to distributed fault management system, including a sensor on a fuel cell	1390
314224-JP-3	JP20170244567	JP20181372110	SYSTEMS AND METHODS FOR DISTRIBUTED FAULT MANAGEMENT IN FUEL CELL SYSTEMS	Japan	21-Dec-17	Application	Could potentially be used in other GE Business	Relates to distributed fault management system, including a sensor on a fuel cell	1391
314224-KR-4	KR20170179688	KR20180081449	SYSTEMS AND METHODS FOR DISTRIBUTED FAULT MANAGEMENT IN FUEL CELL SYSTEMS	Korea	26-Dec-17	Application	Could potentially be used in other GE Business	Relates to distributed fault management system, including a sensor on a fuel cell	1392
314224-SA-5	SA118390230	Unpublished Appl.	SYSTEMS AND METHODS FOR DISTRIBUTED FAULT MANAGEMENT IN FUEL CELL SYSTEMS FLANGE ASSEMBLY FOR USE WITH A SOLID OXIDE FUEL CELL SYSTEM	Saudi Arabia	2-Jan-18	Application	Could potentially be used in other GE Business Exclusive use for GE SOFC Business	Relates to auxiliary power circuit coupled to a power source	1393
314300-CN-2	CN20171990785	CN107978781	FLANGE ASSEMBLY FOR USE WITH A SOLID OXIDE FUEL CELL SYSTEM	China	20-Oct-17	Published	Exclusive use for GE SOFC Business		1394
314300-EP-3	EP20170194596	EP3312924	SOLID OXIDE FUEL CELL SYSTEM FLANGE ASSEMBLY FOR USE WITH A SOLID OXIDE FUEL CELL SYSTEM	European Patent	3-Oct-17	Published	Exclusive use for GE SOFC Business		1395
314300-KR-4	KR20170135888	KR20180044206	SOLID OXIDE FUEL CELL SYSTEM	Korea	19-Oct-17	Application	Exclusive use for GE SOFC Business	Relates to auxiliary power circuit coupled to a power source	1395
314638-CN-2	CN2018190497	CN108376978	AUXILIARY POWER CIRCUIT AND METHOD OF USE	China	30-Jan-18	Published	Could potentially be used in other GE Business	Relates to auxiliary power circuit coupled to a power source	1397
314638-JP-3	JP20180005251	JP2018157742	AUXILIARY POWER CIRCUIT AND METHOD OF USE	Japan	17-Jan-18	Application	Could potentially be used in other GE Business	Relates to auxiliary power circuit coupled to a power source	1398
314638-SA-4	SA118390248	Unpublished Appl.	AUXILIARY POWER CIRCUIT AND METHOD OF USE	Saudi Arabia	10-Jan-18	Application	Could potentially be used in other GE Business	Relates to auxiliary power circuit coupled to a power source	1399
314638-KR-5	KR20180011525	KR20180089319	AUXILIARY POWER CIRCUIT AND METHOD OF USE	Korea	30-Jan-18	Application	Could potentially be used in other GE Business Exclusive use for GE SOFC Business	Relates to auxiliary power circuit coupled to a power source	1400
318197-US-1	US15/590157	US20180331385	INTEGRATED FUEL CELL SYSTEMS	USA	9-May-17	Published	Exclusive use for GE SOFC Business		1401
319373-US-1	US15/866494	Unpublished Appl.	A POWER GENERATION SYSTEM AND A METHOD FOR OPERATING THE SAME	USA	10-Jan-18	Application	Exclusive use for GE SOFC Business		1402

319373-CN-2	CN2019123069	Unpublished Appl.	A POWER GENERATION SYSTEM AND A METHOD FOR OPERATING THE SAME	China	10-Jan-19	Application	Exclusive use for GE SOFC Business	293
319373-EP-3	EP20190150692	Unpublished Appl.	A POWER GENERATION SYSTEM AND A METHOD FOR OPERATING THE SAME	European Patent	8-Jan-19	Application	Exclusive use for GE SOFC Business	294
319373-JP-4	JP20180242017	Unpublished Appl.	A POWER GENERATION SYSTEM AND A METHOD FOR OPERATING THE SAME	Japan	26-Dec-18	Application	Exclusive use for GE SOFC Business	295
319373-KR-5	KR20190001158	Unpublished Appl.	A POWER GENERATION SYSTEM AND A METHOD FOR OPERATING THE SAME METHOD AND CONTROL SUB-SYSTEM FOR OPERATING A POWER GENERATION SYSTEM HAVING A FUEL-CELL METHOD AND CONTROL SUB-SYSTEM FOR OPERATING A POWER GENERATION SYSTEM HAVING A FUEL-CELL METHOD AND CONTROL SUB-SYSTEM	Korea	4-Jan-19	Application	Exclusive use for GE SOFC Business	296
319414-US-1	US15/925791	Unpublished Appl.	CELL METHOD AND CONTROL SUB-SYSTEM FOR OPERATING A POWER GENERATION SYSTEM HAVING A FUEL-CELL METHOD AND CONTROL SUB-SYSTEM	USA	20-Mar-18	Application	Exclusive use for GE SOFC Business	297
319414-CN-2	CN201910211611	Unpublished Appl.	CELL METHOD AND CONTROL SUB-SYSTEM FOR OPERATING A POWER GENERATION SYSTEM HAVING A FUEL-CELL METHOD AND CONTROL SUB-SYSTEM	China	20-Mar-19	Application	Exclusive use for GE SOFC Business	298
319414-EP-3	EP20190162004	Unpublished Appl.	CELL METHOD AND CONTROL SUB-SYSTEM FOR OPERATING A POWER GENERATION SYSTEM HAVING A FUEL-CELL METHOD AND CONTROL SUB-SYSTEM	European Patent	11-Mar-19	Application	Exclusive use for GE SOFC Business	299
319414-KR-4	KR20190031693	Appl. Acknowledged	CELL GENERATION SYSTEM HAVING A FUEL-CELL Auxiliary Power Management for Fuel	Korea	11-Jan-18	Application	Exclusive use for GE SOFC Business	210
319336-US-1	US15/869025	Unpublished Appl.	Cell Systems Auxiliary Power Management for Fuel	USA	11-Jan-19	Application	Exclusive use for GE SOFC Business	211
319336-CN-2	CN2019126945	Unpublished Appl.	Cell Systems Auxiliary Power Management for Fuel	China	11-Jan-19	Application Examination Requested	Exclusive use for GE SOFC Business	212
319336-KR-3	KR20190002890	Unpublished Appl.	Cell Systems Auxiliary Power Management for Fuel	Korea European Patent	9-Jan-19	Application	Exclusive use for GE SOFC Business	213
319336-EP-4	EP20190150670	Unpublished Appl.	CELL SYSTEM AND METHOD AND DIGITAL TWIN BASED MANAGEMENT	Patent	8-Jan-19	Application	Exclusive use for GE SOFC Business	214
319749-US-1	US15/830338	Unpublished Appl.	TWIN BASED FUEL CELL MANAGEMENT SYSTEM AND METHOD DIGITAL TWIN BASED MANAGEMENT SYSTEM AND METHOD AND DIGITAL TWIN BASED FUEL CELL MANAGEMENT SYSTEM AND METHOD	USA	4-Dec-17	Application	Could potentially be used in other GE Business	215
319749-CN-2	CN201811464545	Unpublished Appl.	SYSTEM AND METHOD ARTICLE HAVING A BARRIER LAYER AND	China	3-Dec-18	Application	Could potentially be used in other GE Business	216
320089-US-1	US15/863995	Unpublished Appl.	ASSOCIATED METHOD THEREOF ARTICLE HAVING A BARRIER LAYER AND	USA	8-Jan-18	Application	Could potentially be used in other GE Business	217
320089-CN-2	CN2019115659	Unpublished Appl.	ASSOCIATED METHOD THEREOF ARTICLE HAVING A BARRIER LAYER AND	China European Patent	8-Jan-19	Application	Could potentially be used in other GE Business	218
320089-EP-3	EP201820015352	Unpublished Appl.	ASSOCIATED METHOD THEREOF ARTICLE HAVING A BARRIER LAYER AND	Patent	21-Dec-18	Application	Could potentially be used in other GE Business	219
320089-JP-4	JP20190000431	Unpublished Appl.	ASSOCIATED METHOD THEREOF	Japan	7-Jan-19	Application	other GE Business	220



313956-KR-4	KR201/70008339	KR300923667/0001 CNZL20173010832	FUEL CELL	Korea	22-Feb-17	Granted	Exclusive use for GE SOFC Business	237
313956-CN-5	CN20173108324	4 EM003803048-	FUEL CELL	China European Union	5-Apr-17	Granted	Exclusive use for GE SOFC Business	238
313956-EM-6	EM003803048-0001	0001	FUEL CELL	IPO	16-Mar-17	Granted	Exclusive use for GE SOFC Business	239
313956-EM-7	EM003803048-0002	EM003803048- 0002	Ornamental design and appearance of the layers of the solid oxide fuel cell	European Union IPO	16-Mar-17	Granted	Exclusive use for GE SOFC Business	240
313956-EM-8	EM003803048-0003	EM003803048- 0003	Ornamental design and appearance of the layers of the solid oxide fuel cell	European Union IPO	16-Mar-17	Granted	Exclusive use for GE SOFC Business	241
313956-EM-9	EM003803048-0004	EM003803048- 0004	Ornamental design and appearance of the layers of the solid oxide fuel cell	European Union IPO	16-Mar-17	Granted	Exclusive use for GE SOFC Business	242
313956-EM-10	EM003803048-0005	EM003803048- 0005	Ornamental design and appearance of the layers of the solid oxide fuel cell	European Union IPO	16-Mar-17	Granted	Exclusive use for GE SOFC Business	243
313956-EM-11	EM003803048-0006	EM003803048- 0006	Ornamental design and appearance of the layers of the solid oxide fuel cell	European Union IPO	16-Mar-17	Granted	Exclusive use for GE SOFC Business	244
313956-EM-12	EM003803048-0007	EM003803048- 0007	Ornamental design and appearance of the layers of the solid oxide fuel cell	European Union IPO	16-Mar-17	Granted	Exclusive use for GE SOFC Business	245
313956-EM-13	EM003803048-0008	EM003803048- 0008	Ornamental design and appearance of the layers of the solid oxide fuel cell	European Union IPO	16-Mar-17	Granted	Exclusive use for GE SOFC Business	246
313956-EM-14	EM003803048-0009	EM003803048- 0009	Ornamental design and appearance of the layers of the solid oxide fuel cell	European Union IPO	16-Mar-17	Granted	Exclusive use for GE SOFC Business	247
313956-EM-15	EM003803048-0010	EM003803048- 0010	FUEL CELL	European Union IPO	16-Mar-17	Granted	Exclusive use for GE SOFC Business	248
313956-US-16	US29/680016	Unpublished Appl.	FUEL CELL METHOD FOR MANUFACTURING FUEL CELLS, AND ARTICLES MADE THEREWITH	USA	5-Oct-16	Application	Exclusive use for GE SOFC Business	249
120505-US-1	US10/063939	US6787264	UNITIZED CELL SOLID OXIDE FUEL CELLS FLUID PASSAGES FOR POWER GENERATION EQUIPMENT	USA	28-May-02	Granted	Exclusive use for GE SOFC Business	250
122595-US-1	US09/419343	US6649296	UNITIZED CELL SOLID OXIDE FUEL CELLS FLUID PASSAGES FOR POWER GENERATION EQUIPMENT	USA	15-Oct-99	Granted	Exclusive use for GE SOFC Business	251
124626-US-1	US10/064605	US7011904	COMPLANT FUEL CELL SYSTEM SOLID OXIDE FUEL CELL WITH INTERNAL REFORMING, CATALYZED INTERCONNECT FOR USE THEREWITH, AND METHODS SYSTEM AND METHOD FOR FUEL CELL OPERATION WITH IN-SITU REFORMER REGENERATION OXIDANT AND FUEL DISTRIBUTION FOR A FUEL CELL ASSEMBLY	USA	30-Jul-02	Granted	Exclusive use for GE SOFC Business	252
126533-US-1	US10/816697	US7632595	COMPLANT FUEL CELL SYSTEM SOLID OXIDE FUEL CELL WITH INTERNAL REFORMING, CATALYZED INTERCONNECT FOR USE THEREWITH, AND METHODS SYSTEM AND METHOD FOR FUEL CELL OPERATION WITH IN-SITU REFORMER REGENERATION OXIDANT AND FUEL DISTRIBUTION FOR A FUEL CELL ASSEMBLY	USA	5-Apr-04	Granted	Exclusive use for GE SOFC Business	253
128924-US-1	US10/7708042	US7732084	COMPLANT FUEL CELL SYSTEM SOLID OXIDE FUEL CELL WITH INTERNAL REFORMING, CATALYZED INTERCONNECT FOR USE THEREWITH, AND METHODS SYSTEM AND METHOD FOR FUEL CELL OPERATION WITH IN-SITU REFORMER REGENERATION OXIDANT AND FUEL DISTRIBUTION FOR A FUEL CELL ASSEMBLY	USA	4-Feb-04	Granted	Exclusive use for GE SOFC Business	254
131098-US-1	US11/241133	US7713642	COMPLANT FUEL CELL SYSTEM SOLID OXIDE FUEL CELL WITH INTERNAL REFORMING, CATALYZED INTERCONNECT FOR USE THEREWITH, AND METHODS SYSTEM AND METHOD FOR FUEL CELL OPERATION WITH IN-SITU REFORMER REGENERATION OXIDANT AND FUEL DISTRIBUTION FOR A FUEL CELL ASSEMBLY	USA	30-Sep-05	Granted	Exclusive use for GE SOFC Business	255
131757-US-1	US10/750463	US7387850	COMPLANT FUEL CELL SYSTEM SOLID OXIDE FUEL CELL WITH INTERNAL REFORMING, CATALYZED INTERCONNECT FOR USE THEREWITH, AND METHODS SYSTEM AND METHOD FOR FUEL CELL OPERATION WITH IN-SITU REFORMER REGENERATION OXIDANT AND FUEL DISTRIBUTION FOR A FUEL CELL ASSEMBLY	USA	31-Dec-03	Granted	Exclusive use for GE SOFC Business	256

148561-US-1	US10/953756	US7803493	FUEL CELL SYSTEM WITH SEPARATING STRUCTURE BONDED TO ELECTROLYTE SOFC SEAL AND CELL THERMAL MANAGEMENT	USA	29-Sep-04	Granted	Exclusive use for GE SOFC Business	257
152863-US-1	US11/257156	US7943266	ELECTRODE STRUCTURE AND METHODS OF MAKING SAME	USA	25-Oct-05	Granted	Exclusive use for GE SOFC Business	258
160944-US-1	US11/218651	US7691770	ELECTRODE-SUPPORT ED CERAMIC FUEL CELL CONTAINING LAMINAR COMPOSITE ELECTRODE INCLUDING POROUS SUPPORT ELECTRODE, PATTERNED STRUCTURE LAYER AND ELECTROLYTE	USA	2-Sep-05	Granted	Exclusive use for GE SOFC Business	259
181252-US-1	US11/278212	US8580453	METHOD FOR MAKING TOUGHENED ELECTRODE-SUPPORTED CERAMIC FUEL CELLS	USA	31-Mar-06	Granted	Exclusive use for GE SOFC Business	260
181252-US-3	US12/472890	US8252366	HIGH TEMPERATURE PROTECTION OF HYBRID FUEL CELL SYSTEM COMBUSTOR AND OTHER COMPONENTS VIA WATER OR WATER VAPOR INJECTION	USA	27-May-09	Granted	Exclusive use for GE SOFC Business	261
184875-US-1	US11/288393	US7184875	BOND LAYER FOR A SOLID OXIDE FUEL CELL, AND RELATED PROCESSES AND DEVICES	USA	29-Nov-05	Granted	Exclusive use for GE SOFC Business	262
223943-US-1	US11/963308	US9597708	INTERCONNECT AND SOLID OXIDE FUEL CELL DEVICE	USA	21-Dec-07	Granted	Exclusive use for GE SOFC Business	263
255359-FR-6	EP20150160057	EP2928000	INTERCONNECT AND SOLID OXIDE FUEL CELL DEVICE	France	20-Mar-15	Granted	Exclusive use for GE SOFC Business	264
255359-DE-7	EP20150160057	EP2928000	INTERCONNECT AND SOLID OXIDE FUEL CELL DEVICE	Germany	20-Mar-15	Granted	Exclusive use for GE SOFC Business	265
255359-GB-8	EP20150160057	EP2928000	INTERCONNECT AND SOLID OXIDE FUEL CELL DEVICE	United Kingdom	20-Mar-15	Granted	Exclusive use for GE SOFC Business	266
255359-IT-9	EP20150160057	EP2928000	INTERCONNECT AND SOLID OXIDE FUEL CELL DEVICE	Italy	20-Mar-15	Granted	Exclusive use for GE SOFC Business	267
154891-US-1	US11/010257	US7181329	HIGH TEMPERATURE PROTECTION OF HYBRID FUEL CELL SYSTEM COMBUSTOR AND OTHER COMPONENTS VIA WATER OR WATER VAPOR INJECTION	USA	14-Dec-04	Granted	Exclusive use for GE SOFC Business	268

Relates to temperature control in any type of fuel cell system

PATENT

REEL: 049804 FRAME: 0334

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