

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8093392

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	GENERAL ELECTRIC COMPANY	11/02/2018
RECEIVING PARTY DATA		
Name:	AI ALPINE US BIDCO LLC	
Street Address:	CORPORATE TRUST CENTER	
Internal Address:	1209 ORANGE STREET	
City:	WILMINGTON	
State/Country:	DELAWARE	
Postal Code:	19801	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	17218049
CORRESPONDENCE DATA		
Fax Number:	(281)970-4545	
<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>		
Phone:	2819704545	
Email:	docket@fyiplaw.com, swanson@fyiplaw.com, howell@fyiplaw.com	
Correspondent Name:	FLETCHER YODER C/O INNIO	
Address Line 1:	P.O. BOX 692289	
Address Line 4:	HOUSTON, TEXAS 77269-2289	
ATTORNEY DOCKET NUMBER:	311308-US-3 (INIO:0077-1)	
NAME OF SUBMITTER:	TAIT R. SWANSON	
SIGNATURE:	/Tait R. Swanson, Reg. No. 48,226/	
DATE SIGNED:	08/02/2023	
Total Attachments: 50		
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INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

This INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT ("Assignment"), effective as of November 2, 2018 ("Effective Date"), is by and between GENERAL ELECTRIC COMPANY, a New York corporation, with an office located at 41 Farnsworth Street, Boston, Massachusetts 02210, United States of America (the "Assignor") and AI ALPINE US BIDCO LLC, a Delaware corporation (file number 6921086) whose registered office in the State of Delaware is Corporation Trust Center, 1209 Orange Street, City of Wilmington, County of New Castle, US-19801 Delaware, United States of America ("Assignee").

WHEREAS, Assignor and Assignee, among others, are party to that certain Share Purchase Agreement, dated as of 25 June, 2018 ("Purchase Agreement");

WHEREAS, under the terms of the Purchase Agreement, Assignor agreed to deliver and transfer to Assignee all of their right, title and interest in, to and under: (i) the patents and patent applications set forth on Exhibit A hereto, including all reissues, divisionals, continuations, continuations in-part, extensions, renewals and reexaminations thereof ("Patents");

[REDACTED]; the Patents, [REDACTED], collectively, the "Assigned IP"), and to execute this Assignment; and

WHEREAS, the Transferred Entities (as defined in the Purchase Agreement) possessed and exploited economic rights in the Assigned IP through the operation of the Business (as defined in the Purchase Agreement) prior to the Effective Date;

WHEREAS, under the terms of the Purchase Agreement, Assignee (Buyer 1, as defined under the Purchase Agreement) agreed to acquire the Assigned IP from Assignor.

NOW, THEREFORE, for good and valuable consideration, including the consideration reflected in the Purchase Agreement, the sufficiency and receipt of which is hereby acknowledged, Assignor and Assignee hereby agree as follows:

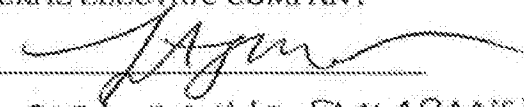
1. Assignor hereby assigns, transfers and conveys to Assignee its entire worldwide right, title and interest in, to and under the Assigned IP along with (i) all rights and privilege arising under applicable law with respect to Assignor's use of any of the Assigned IP; (ii) [REDACTED] and (iii) all rights of action pertaining to the Assigned IP, including, without limitation, all rights in and to all causes of action (whether in law or in equity) with respect thereto, the right to sue, counterclaim, and recover for past, present and future infringement of the Assigned IP or any rights relating to the Assigned IP, the right to secure registration of the Assigned IP and of this Assignment, the right to initiate and prosecute other proceedings before all government and administrative bodies with respect to the Assigned IP, and the right to claim priority, file foreign counterparts, and any and all other proceeds of any of the foregoing, including, but not limited to, all income, royalties, damages and payments now or hereafter due or payable with respect thereto.

2. This Assignment is binding upon, and inures to the benefit of, the parties hereto and their respective legal representatives, successors and assigns. It is understood that any finding of invalidity of one assignment as effected hereby shall not affect the assignment of other Assigned IP. All questions concerning the construction, validity and interpretation of this Assignment and the performance of the obligations imposed by this Assignment shall be governed by, and construed in accordance with, the laws of the State of New York without regard to any choice of law or conflict of law provision or rule that would cause the application of the laws of any other jurisdiction.
3. Upon reasonable request by Assignee, Assignor will execute additional documents and take other actions as may be necessary or desirable to record or memorialize the assignments of the Assigned IP, and to vest in Assignee such right, title and interest in and to the Assigned IP as assigned and transferred to Assignee hereunder; [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
4. Assignor hereby authorizes and requests the officials of the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable foreign jurisdiction, [REDACTED]
[REDACTED], to record Assignee as assignee and owner of the entire right, title and interest in, to and under the Assigned IP.
5. No waiver, modification or change of any of the provisions of this Assignment shall be valid unless in writing and signed by the party against whom such claimed waiver, modification or change is sought to be enforced.
6. This Assignment may be executed in counterparts, each of which shall be deemed an original, but all of which together shall be deemed to be one and the same agreement. A signed copy of this Assignment delivered by facsimile, e-mail or other means of electronic transmission shall be deemed to have the same legal effect as delivery of an original signed copy of this Assignment.

IN WITNESS WHEREOF, the parties hereto, through their authorized representatives, have caused this Assignment to be duly executed and delivered as of the Effective Date.

As Assignor:

GENERAL ELECTRIC COMPANY

By: 

Name: SARA AGULLO SAMARANCH

Title: Senior Managing Director

As Assignee:

AI ALPINE US BIDCO LLC

By: _____

Name: _____

Title: _____

[Signature Page to the Intellectual Property Assignment Agreement]

As Assignee:

AI ALPINE US BIDCO INC

By: _____

Name:

Title:

Michael J. Ristagno

[Signature Page to the Intellectual Property Assignment Agreement]

84848-3743-4476

EXHIBIT A**PATENTS**

The patents and patent applications listed below:

Title	Country	Filed Date	App. Number	Grant Date	Patent Number
SYSTEM AND METHOD FOR CONTROL OF EXHAUST GAS RECIRCULATION EGR UTILIZING PROCESS TEMPERATURES	Australia	2014-09-30	2014240195	2017-12-07	2014240195
METHODS AND SYSTEMS TO CHARACTERIZE NOISES SENSED BY A KNOCK SENSOR	Australia	2015-12-18	2015271937		
EXHAUST AFTERTREATMENT SYSTEM WITH CATALYTIC DEACTIVATION MONITORING	Austria	2015-04-13	15163404.5	2018-02-28	2933449
SPARK PLUG ELECTRODE GAP SETTING TOOL	Austria	2015-10-05	15188410.3	2018-07-04	3006163
METHOD AND SYSTEM OF DIAGNOSING A KNOCK SENSOR	Austria	2016-02-05	16154442.4	2018-04-18	3054134
SYSTEM AND METHOD FOR DETECTING OPERATING EVENTS OF AN ENGINE	Austria	2016-01-28	16153229.6	2017-12-06	3051104
METHODS AND SYSTEMS TO CHARACTERIZE NOISES SENSED BY A KNOCK SENSOR	Austria	2015-12-21	15201539.2	2017-10-25	3040540
SYSTEMS AND METHODS FOR MODEL BASED CONTROL OF CATALYTIC CONVERTER SYSTEMS	Austria	2015-12-10	15199342.5	2018-10-03	3032076
SYSTEM AND METHOD FOR INJECTION CONTROL OF UREA IN SELECTIVE CATALYST REDUCTION	Austria	2016-04-13	16165045.2	2018-10-03	3081776

SYSTEM AND METHOD FOR INJECTION CONTROL OF UREA IN SELECTIVE CATALYST REDUCTION	Austria	2016-04-13	16165045.2	2018-10-03	3081776
ELECTROMAGNETIC BRAKING SYSTEMS AND METHODS	Brazil	2013-06-27	102013016638-3		
Rich Burn Internal Combustion Engine Catalyst Control	Brazil	2014-02-05	102014002821-8		
SYSTEM AND PROGRAM PRODUCT FOR CONTROLLING EXHAUST GAS TEMPERATURE OF ENGINE SYSTEM	Brazil	2014-12-10	102014030958-6		
POWER GENERATION SYSTEM AND METHOD WITH FAULT RIDE THROUGH CAPABILITY	Brazil	2014-11-10	102014028062-6		
ONBOARD CATALYST HEALTH MONITORING AND CONTROL SYSTEM ADAPTATION IN INTERNAL COMBUSTION ENGINES	Brazil	2014-11-17	102014028613-6		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Brazil	2015-06-05	102015013117-8		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Brazil	2015-06-05	102015013120-8		
SYSTEM FOR CONTROLLING DEPOSITS ON CYLINDER LINER AND PISTON OF RECIPROCATING ENGINE	Brazil	2015-08-20	102015020090-0		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Brazil	2015-06-05	102015013118-6		
PISTON WITH REDUCED TOP LAND HEIGHT AND TIGHT TOP LAND PISTON PROFILE	Brazil	2015-01-13	10 2015 000764-7		

SYSTEMS AND METHODS FOR CONTROLLING EMISSIONS IN AN INTERNAL COMBUSTION ENGINE THROUGH THE CONTROL OF TEMPERATURE AT THE INLET OF AN AMMONIA SLIP CATALYST ASSEMBLY	Brazil	2015-01-12	10 2015 000662-4		
SYSTEMS AND METHODS FOR MODEL BASED CONTROL OF CATALYTIC CONVERTER SYSTEMS	Brazil	2015-12-10	102015030853-1		
POWER GENERATION SYSTEM AND METHOD WITH RESISTIVE BRAKING CAPABILITY	Brazil	2015-12-10	102015030863-9		
SYSTEMS AND METHODS FOR CONTROLLING AFTERTREATMENT SYSTEMS	Brazil	2016-02-25	102016004088-4		
SYSTEM AND METHOD FOR LOCATING ENGINE NOISE	Brazil	2015-12-30	102015032948-2		
KNOCK SENSOR SYSTEMS AND METHODS FOR DETECTION OF COMPONENT CONDITIONS	Brazil	2016-04-06	102016007574-2		
SENSOR FOR DETERMINING ENGINE CHARACTERISTICS	Brazil	2015-12-22	102015032241-0		
METHOD AND SYSTEM TO DETERMINE LOCATION OF PEAK FIRING PRESSURE	Brazil	2016-02-16	102016003195-8		
SYSTEM AND METHOD FOR DETECTING RECIPROCATING DEVICE ABNORMALITIES UTILIZING STANDARD QUALITY CONTROL TECHNIQUES	Brazil	2016-01-06	102016000207-9		

SYSTEM AND METHOD FOR MODEL BASED AND MAP BASED THROTTLE POSITION DERIVATION AND MONITORING	Brazil	2016-02-01	102016002225-8		
INDUCTION GENERATOR SYSTEM WITH A GRID-LOSS RIDE-THROUGH CAPABILITY	Brazil	2015-10-20	102015026557-3		
SYSTEMS AND METHODS TO DISTINGUISH ENGINE KNOCK FROM PISTON SLAP	Brazil	2016-02-26	102016004249-6		
METHODS AND SYSTEMS TO DERIVE KNOCK SENSOR CONDITIONS	Brazil	2016-02-05	102016002606-7		
SYSTEM AND METHOD FOR DETECTING OPERATING EVENTS OF AN ENGINE	Brazil	2016-01-28	102016001908-7		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Brazil	2015-12-29	102015032852-4		
SYSTEMS AND METHODS FOR ESTIMATING A TIME OF AN ENGINE EVENT	Brazil	2016-04-06	102016007569-6		
METHODS AND SYSTEMS TO DERIVE ENGINE COMPONENT HEALTH USING TOTAL HARMONIC DISTORTION IN A KNOCK SENSOR SIGNAL	Brazil	2016-02-11	102016002862-0		
SYSTEM AND METHOD FOR LOCATING AN ENGINE EVENT	Brazil	2016-03-18	102016005985-2		
MANIFOLD GASKET ASSEMBLY	Canada	2012-08-02	2784423		
Rich Burn Internal Combustion Engine Catalyst Control	Canada	2014-01-30	2841288		
LAMBDA VIRTUAL SENSOR SYSTEMS AND METHODS FOR A COMBUSTION ENGINE	Canada	2016-07-05	2994531		

SYSTEM AND METHOD FOR CONTROL OF EXHAUST GAS RECIRCULATION EGR UTILIZING PROCESS TEMPERATURES	Canada	2014-10-02	2867223		
SYSTEM AND PROGRAM PRODUCT FOR CONTROLLING EXHAUST GAS TEMPERATURE OF ENGINE SYSTEM	Canada	2014-11-27	2874484		
POWER GENERATION SYSTEM AND METHOD WITH FAULT RIDE THROUGH CAPABILITY	Canada	2014-11-06	2869806		
ONBOARD CATALYST HEALTH MONITORING AND CONTROL SYSTEM ADAPTATION IN INTERNAL COMBUSTION ENGINES	Canada	2014-11-13	2870781		
POWER INTEGRATED SYSTEM AND METHOD FOR DRILLING RIG AND OIL/GAS PRODUCTION EQUIPMENT	Canada	2015-02-12	2881669		
CYLINDER HEAD ACCELERATION MEASUREMENT FOR VALVE TRAIN DIAGNOSTICS SYSTEM AND METHOD	Canada	2016-05-26	2988569		
SYSTEM AND METHOD FOR ENGINE CONTROL	Canada	2015-08-06	2994691		
SYSTEMS AND METHODS FOR CONTROLLING EMISSIONS IN AN INTERNAL COMBUSTION ENGINE THROUGH THE CONTROL OF TEMPERATURE AT THE INLET OF AN AMMONIA SLIP CATALYST ASSEMBLY	Canada	2015-01-08	2877006		

SYSTEMS AND METHODS FOR CONTROLLING AFTERTREATMENT SYSTEMS	Canada	2016-02-18	2921267		
KNOCK SENSOR SYSTEMS AND METHODS FOR DETECTION OF COMPONENT CONDITIONS	Canada	2016-04-14	2927277		
SENSOR FOR DETERMINING ENGINE CHARACTERISTICS	Canada	2015-12-17	2915466		
METHOD AND SYSTEM TO DETERMINE LOCATION OF PEAK FIRING PRESSURE	Canada	2016-02-11	2920486		
SYSTEM AND METHOD FOR DETECTING RECIPROCATING DEVICE ABNORMALITIES UTILIZING STANDARD QUALITY CONTROL TECHNIQUES	Canada	2015-12-30	2916466		
SYSTEM AND METHOD FOR DETECTION OF CHANGES TO COMPRESSION RATIO AND PEAK FIRING PRESSURE OF AN ENGINE	Canada	2016-06-28	2989640		
SYSTEMS AND METHODS TO DISTINGUISH ENGINE KNOCK FROM PISTON SLAP	Canada	2016-02-25	2921934		
METHODS AND SYSTEMS TO DERIVE KNOCK SENSOR CONDITIONS	Canada	2016-01-28	2919242		
SYSTEM AND METHOD FOR DETECTING OPERATING EVENTS OF AN ENGINE	Canada	2016-01-21	2918914		
METHODS AND SYSTEMS TO CHARACTERIZE NOISES SENSED BY A KNOCK SENSOR	Canada	2015-12-18	2915789		
KNOCK SENSOR NETWORK SYSTEMS AND METHODS FOR CHARACTERIZING NOISES	Canada	2016-03-18	2981258		

SYSTEMS AND METHODS FOR ESTIMATING A TIME OF AN ENGINE EVENT	Canada	2016-03-24	2924930		
METHODS AND SYSTEMS TO DERIVE ENGINE COMPONENT HEALTH USING TOTAL HARMONIC DISTORTION IN A KNOCK SENSOR SIGNAL	Canada	2016-01-28	2919241		
SYSTEM AND METHOD FOR LOCATING AN ENGINE EVENT	Canada	2016-03-10	2923277		
SYSTEM AND METHOD FOR INJECTION CONTROL OF UREA IN SELECTIVE CATALYST REDUCTION	Canada	2016-03-30	2925371		
SYSTEM AND METHOD FOR OXIDANT TEMPERATURE CONTROL	Canada	2016-06-08	2989594		
DUAL FUEL SYSTEM FOR A COMBUSTION ENGINE	Canada	2016-06-23	2991405		
RECIPROCATING COMPRESSOR FLOW SENSING	Canada	2017-10-05	2981535		
JOINT-LESS CONTINUOUS JOURNAL BEARINGS	Canada	2017-11-30	2987167		
TURBINE EXHAUST RECIRCULATION SYSTEM AND METHOD	China	2010-08-27	201010272882.9	2014-11-19	201010272882.9
ELECTROMAGNETIC BRAKING SYSTEMS AND METHODS	China	2013-06-28	201310263947.7	2017-06-13	103516272
VARIABLE THICKNESS COATING FOR CYLINDER LINER	China	2013-06-20	201310246012.8	2018-06-12	103511112
SYSTEM AND METHOD OF EXHAUST GAS RECIRCULATION	China	2016-09-16	201680079344.3		
SYSTEM FOR COOLING POWER GENERATION SYSTEM	China	2014-03-04	201410075996.2	2018-09-18	104033231
MANIFOLD GASKET ASSEMBLY	China	2012-08-09	201210281970.4	2017-10-03	102953863
Rich Burn Internal Combustion Engine Catalyst Control	China	2014-02-07	201410044952.3		

EMISSIONS CONTROL IN DIESEL ENGINES	China	2014-11-21	201410674311.6		
SYSTEM AND METHOD FOR CONTROL OF EXHAUST GAS RECIRCULATION EGR UTILIZING PROCESS TEMPERATURES	China	2014-10-10	201410532349.X	2018-05-29	104564373
SYSTEM AND PROGRAM PRODUCT FOR CONTROLLING EXHAUST GAS TEMPERATURE OF ENGINE SYSTEM	China	2014-12-11	201410766769.4		
GASEOUS REDUCTANT INJECTION CONTROL SYSTEM	China	2014-10-24	201410573905.8		
POWER GENERATION SYSTEM AND METHOD WITH FAULT RIDE THROUGH CAPABILITY	China	2014-11-20	201410666181.1		
SYSTEM AND METHOD FOR POWER GENERATION	China	2013-07-18	201310303270.5		
ONBOARD CATALYST HEALTH MONITORING AND CONTROL SYSTEM ADAPTATION IN INTERNAL COMBUSTION ENGINES	China	2014-11-19	201410663180.1		
Systems and Methods for Monitoring Catalyst Deactivation and Controlling an Air/Fuel Ratio	China	2014-09-26	201410501113.X		
POWER INTEGRATED SYSTEM AND METHOD FOR DRILLING RIG AND OIL/GAS PRODUCTION EQUIPMENT	China	2014-02-18	201410054131.8		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	China	2015-06-08	201510307846.4		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	China	2015-06-08	201510307887.3		
SYSTEM FOR CONTROLLING DEPOSITS ON CYLINDER LINER AND PISTON OF RECIPROCATING ENGINE	China	2015-08-21	201510516803.7		

PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	China	2015-06-05	201510301908.0		
BASE-FRAME ASSEMBLY FOR A COMBUSTION ENGINE	China	2016-05-12	201610311144.8		
PISTON WITH REDUCED TOP LAND HEIGHT AND TIGHT TOP LAND PISTON PROFILE	China	2015-01-14	201510017775.4		
SYSTEMS AND METHODS FOR CONTROLLING EMISSIONS IN AN INTERNAL COMBUSTION ENGINE THROUGH THE CONTROL OF TEMPERATURE AT THE INLET OF AN AMMONIA SLIP CATALYST ASSEMBLY	China	2015-01-14	201510017707.8		
CONDITION BASED ENGINE PARTS MONITORING	China	2016-03-04	201610123829.X		
SYSTEM AND METHOD FOR IMPROVING RESPONSE TIME OF A BRAKING UNIT	China	2015-07-24	201510440604.2		
SYSTEMS AND METHODS FOR MODEL BASED CONTROL OF CATALYTIC CONVERTER SYSTEMS	China	2015-12-11	201511036234.2		
DRILLING SYSTEM AND POWER SUPPLY METHOD	China	2014-06-18	201410272958.6		
SPARK PLUG ELECTRODE GAP SETTING TOOL	China	2015-10-08	201510643403.2		
POWER GENERATION SYSTEM AND METHOD WITH RESISTIVE BRAKING CAPABILITY	China	2015-12-11	201510912307.3		
SYSTEMS AND METHODS FOR CONTROLLING AFTERTREATMENT SYSTEMS	China	2016-03-02	201610116846.0		
SYSTEM AND METHOD FOR LOCATING ENGINE NOISE	China	2015-12-31	201511036326.0		

KNOCK SENSOR SYSTEMS AND METHODS FOR DETECTION OF COMPONENT CONDITIONS	China	2016-04-22	201610253130.5		
SENSOR FOR DETERMINING ENGINE CHARACTERISTICS	China	2016-01-08	201610011336.7		
METHOD AND SYSTEM TO DETERMINE LOCATION OF PEAK FIRING PRESSURE	China	2016-02-19	201610092672.9		
SYSTEM AND METHOD FOR DETECTING RECIPROCATING DEVICE ABNORMALITIES UTILIZING STANDARD QUALITY CONTROL TECHNIQUES	China	2016-01-07	201610223627.2		
SYSTEM AND METHOD FOR MODEL BASED AND MAP BASED THROTTLE POSITION DERIVATION AND MONITORING	China	2016-02-04	201610078918.7		
INDUCTION GENERATOR SYSTEM WITH A GRID-LOSS RIDE-THROUGH CAPABILITY	China	2015-10-20	201510678495.8		
SYSTEMS AND METHODS TO DISTINGUISH ENGINE KNOCK FROM PISTON SLAP	China	2016-03-11	201610138320.2		
SYSTEM AND METHOD FOR REGULATING EXHAUST GAS RECIRCULATION IN AN ENGINE	China	2015-12-31	201511016005.4		
METHODS AND SYSTEMS TO DERIVE KNOCK SENSOR CONDITIONS	China	2016-02-05	201610081794.8		
SYSTEM AND METHOD FOR DETECTING OPERATING EVENTS OF AN ENGINE	China	2016-01-29	201610264664.8		
METHODS AND SYSTEMS TO CHARACTERIZE NOISES SENSED BY A KNOCK SENSOR	China	2015-12-31	201511014250.1		

KNOCK SENSOR NETWORK SYSTEMS AND METHODS FOR CHARACTERIZING NOISES	China	2016-03-18	201680032117.5		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	China	2016-01-12	201610017155.5		
SYSTEMS AND METHODS FOR ESTIMATING A TIME OF AN ENGINE EVENT	China	2016-04-07	201610212034.6		
METHODS AND SYSTEMS TO DERIVE ENGINE COMPONENT HEALTH USING TOTAL HARMONIC DISTORTION IN A KNOCK SENSOR SIGNAL	China	2016-02-05	201610264663.3		
SYSTEM AND METHOD FOR LOCATING AN ENGINE EVENT	China	2016-03-24	201610172512.5		
SYSTEM AND METHOD FOR INJECTION CONTROL OF UREA IN SELECTIVE CATALYST REDUCTION	China	2016-04-14	201610229670.X		
SYSTEM AND METHOD FOR GENERATOR BRAKING USING LAMINATED BRAKE COMPONENTS	China	2015-08-10	201580082360.3		
DUAL FUEL SYSTEM FOR A COMBUSTION ENGINE	China	2016-06-23	201680040832.3		
SYSTEMS AND METHODS FOR DETECTION OF ENGINE COMPONENT CONDITIONS VIA EXTERNAL SENSORS	China	2016-06-24	201680038696.4		
METHODS TO ADAPT AIR-FUEL A/F CONTROLS FOR CATALYST AGING	China	2016-09-16	201680079064.2		
RECIPROCATING COMPRESSOR FLOW SENSING	China	2017-10-11	201710941548.X		
JOINT-LESS CONTINUOUS JOURNAL BEARINGS	China	2017-12-15	201711360707.3		
Optimized cylinder head exhaust port and water-cooled exhaust valve guide for maximum cooling of the guide	China				

SYSTEM AND METHOD FOR COMPRESSOR SCHEDULING	China	2018-09-18	201811087260.1		
SYSTEM AND METHOD FOR RECOVERING WASTE HEAT	European Patent	2008-06-16	08771164.4		
SPIRAL RECUPERATIVE HEAT EXCHANGING SYSTEM	European Patent	2010-11-16	10191410.9		
SYSTEM AND METHOD FOR GENERATING AND STORING TRANSIENT INTEGRATED ORGANIC RANKINE CYCLE ENERGY	European Patent	2011-06-09	11727078.5		
AUTO OPTIMIZING CONTROL SYSTEM FOR ORGANIC RANKINE CYCLE PLANTS	European Patent	2011-02-11	11706673.8		
ELECTROMAGNETIC BRAKING SYSTEMS AND METHODS	European Patent	2013-06-25	13173645.6		
INTEGRATION OF WASTE HEAT FROM CHARGE AIR COOLING INTO A CASCADED ORGANIC RANKINE CYCLE SYSTEM	European Patent	2012-04-20	12164863.8		
Method of attachment of precious metal electrodes to spark plugs	European Patent	2013-01-23	13152344.1		
METHOD OF PRODUCING AN ELECTRODE SUPPORT USING BRAZING	European Patent	2013-01-23	13152345.8		
SYSTEM FOR COOLING POWER GENERATION SYSTEM	European Patent	2014-02-25	14156576.2		
GAS DOSAGE CONTROL FOR GAS ENGINE	European Patent	2014-05-07	14167312.9		
Rich Burn Internal Combustion Engine Catalyst Control	European Patent	2014-02-04	14153733.2		
LAMBDA VIRTUAL SENSOR SYSTEMS AND METHODS FOR A COMBUSTION ENGINE	European Patent	2016-07-05	16747652.2		

SYSTEM AND METHOD FOR CONTROL OF EXHAUST GAS RECIRCULATION EGR UTILIZING PROCESS TEMPERATURES	European Patent	2014-10-07	14187998.1		
SYSTEM AND PROGRAM PRODUCT FOR CONTROLLING EXHAUST GAS TEMPERATURE OF ENGINE SYSTEM	European Patent	2014-12-10	14197241.4		
GASEOUS REDUCTANT INJECTION CONTROL SYSTEM	European Patent	2014-10-17	14189312.3		
POWER GENERATION SYSTEM AND METHOD WITH FAULT RIDE THROUGH CAPABILITY	European Patent	2014-11-19	14193938.9		
ONBOARD CATALYST HEALTH MONITORING AND CONTROL SYSTEM ADAPTATION IN INTERNAL COMBUSTION ENGINES	European Patent	2014-11-17	14193523.9		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	European Patent	2015-05-29	15169854.5		
CYLINDER HEAD ACCELERATION MEASUREMENT FOR VALVE TRAIN DIAGNOSTICS SYSTEM AND METHOD	European Patent	2016-05-26	16732026.6		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	European Patent	2015-06-04	15170678.5		
SYSTEM FOR CONTROLLING DEPOSITS ON CYLINDER LINER AND PISTON OF RECIPROCATING ENGINE	European Patent	2015-08-17	15181236.9		
SYSTEM AND METHOD FOR ENGINE CONTROL	European Patent	2015-08-06	15753266.4		
EMISSION CONTROL IN RICH BURN NATURAL GAS ENGINES	European Patent	2015-03-16	15159209.4		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	European Patent	2015-06-04	15170677.7		

BASE-FRAME ASSEMBLY FOR A COMBUSTION ENGINE	European Patent	2016-05-10	16169002.9		
PISTON WITH REDUCED TOP LAND HEIGHT AND TIGHT TOP LAND PISTON PROFILE	European Patent	2015-01-13	15151029.4		
SYSTEMS AND METHODS FOR IN-CYLINDER PRESSURE ESTIMATION USING PRESSURE WAVE MODELING	European Patent	2016-09-16	16770646.4		
CONDITION BASED ENGINE PARTS MONITORING	European Patent	2016-02-26	16157724.2		
SYSTEM AND METHOD FOR IMPROVING RESPONSE TIME OF A BRAKING UNIT	European Patent	2015-07-22	15177889.1		
SYSTEMS AND METHODS FOR MODEL BASED CONTROL OF CATALYTIC CONVERTER SYSTEMS	European Patent	2015-12-10	15199342.5	2018-10-03	3032076
EXHAUST AFTERTREATMENT SYSTEM WITH CATALYTIC DEACTIVATION MONITORING	European Patent	2015-04-13	15163404.5	2018-02-28	2933449
SYSTEMS AND METHODS FOR DETECTING ANOMALIES AT IN- CYLINDER PRESSURE SENSORS	European Patent	2016-10-20	16794786.0		
SPARK PLUG ELECTRODE GAP SETTING TOOL	European Patent	2015-10-05	15188410.3	2018-07-04	3006163
POWER GENERATION SYSTEM AND METHOD WITH RESISTIVE BRAKING CAPABILITY	European Patent	2015-11-30	15197002.7		
SYSTEMS AND METHODS FOR CONTROLLING AFTERTREATMENT SYSTEMS	European Patent	2016-03-01	16158069.1		
SYSTEM AND METHOD FOR LOCATING ENGINE NOISE	European Patent	2015-12-17	15200682.1		

KNOCK SENSOR SYSTEMS AND METHODS FOR DETECTION OF COMPONENT CONDITIONS	European Patent	2016-04-19	16166053.5		
SENSOR FOR DETERMINING ENGINE CHARACTERISTICS	European Patent	2016-01-05	16150239.8		
METHOD AND SYSTEM TO DETERMINE LOCATION OF PEAK FIRING PRESSURE	European Patent	2016-02-17	16156064.4		
SYSTEM AND METHOD FOR DETECTING RECIPROCATING DEVICE ABNORMALITIES UTILIZING STANDARD QUALITY CONTROL TECHNIQUES	European Patent	2016-01-05	16150238.0		
SYSTEM AND METHOD FOR MODEL BASED AND MAP BASED THROTTLE POSITION DERIVATION AND MONITORING	European Patent	2016-02-02	16153942.4	2018-07-25	3054133
INDUCTION GENERATOR SYSTEM WITH A GRID-LOSS RIDE-THROUGH CAPABILITY	European Patent	2015-10-16	15190243.4		
SYSTEM AND METHOD OF COOLING VALVE WITH MATERIAL IN CAVITY	European Patent	2015-11-27	15196878.1		
SYSTEM AND METHOD FOR DETECTION OF CHANGES TO COMPRESSION RATIO AND PEAK FIRING PRESSURE OF AN ENGINE	European Patent	2016-06-28	16739315.6		
SYSTEMS AND METHODS TO DISTINGUISH ENGINE KNOCK FROM PISTON SLAP	European Patent	2016-03-08	16159267.0		
SYSTEM AND METHOD FOR REGULATING EXHAUST GAS RECIRCULATION IN AN ENGINE	European Patent	2015-12-22	15201874.3		

METHOD AND SYSTEM OF DIAGNOSING A KNOCK SENSOR	European Patent	2016-02-05	16154442.4	2018-04-18	3054134
KNOCK SENSOR NETWORK SYSTEMS AND METHODS FOR CHARACTERIZING NOISES	European Patent	2016-03-18	16712169.8		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	European Patent	2016-01-05	16150208.3		
SYSTEMS AND METHODS FOR ESTIMATING A TIME OF AN ENGINE EVENT	European Patent	2016-04-04	16163698.0		
SYSTEM AND METHOD FOR IMPROVED JOURNAL BEARING OPERATIONS	European Patent	2016-11-30	16816510.8		
METHODS AND SYSTEMS TO DERIVE ENGINE COMPONENT HEALTH USING TOTAL HARMONIC DISTORTION IN A KNOCK SENSOR SIGNAL	European Patent	2016-02-05	16154444.0		
SYSTEM AND METHOD FOR LOCATING AN ENGINE EVENT	European Patent	2016-03-22	16161757.6		
SYSTEM AND METHOD FOR INJECTION CONTROL OF UREA IN SELECTIVE CATALYST REDUCTION	European Patent	2016-04-13	16165045.2	2018-10-03	3081776
SYSTEM AND METHOD FOR OXIDANT TEMPERATURE CONTROL	European Patent	2016-06-08	16734080.1		
LAMINAR FLOW OF PISTON COOLING JETS	European Patent	2016-10-18	16791481.1		
SYSTEM AND METHOD FOR CAMSHAFT VIBRATION CONTROL	European Patent	2016-09-29	16781935.8		
SYSTEM AND METHOD FOR GENERATOR BRAKING USING LAMINATED BRAKE COMPONENTS	European Patent	2015-08-10	15753817.4		
DUAL FUEL SYSTEM FOR A COMBUSTION ENGINE	European Patent	2016-06-23	16735969.4		
AN ANNULAR RING GROOVE OF A PISTON	European Patent	2016-09-16	16778524.5		

COATING OF A SYSTEM AND AN ASSOCIATED METHOD THEREOF	European Patent	2016-12-21	16831799.8		
SYSTEM FOR COOLING ENGINE INTAKE FLOW	European Patent	2016-03-31	16719585.8		
RECIPROCATING COMPRESSOR FLOW SENSING	European Patent	2017-10-11	17195939.8		
JOINT-LESS CONTINUOUS JOURNAL BEARINGS	European Patent	2017-12-07	17205970.1		
TWO-STAGE RECIPROCATING COMPRESSOR OPTIMIZATION CONTROL SYSTEM	European Patent	2017-12-06	17205760.6		
SYSTEM AND METHOD FOR PISTON RING PROGNOSTIC	European Patent	2018-08-10	18188516.1		
SYSTEM AND METHOD OF VALVE WEAR DETECTION	European Patent	2018-10-24	18202350.7		
ORGANIC RANKINE CYCLE SYSTEMS USING WASTE HEAT FROM CHARGE AIR COOLING	Finland	2012-05-03	12166544.2	2016-04-13	2522828
Mixing chamber with spiral channels	Finland	2012-06-07	12171197.2	2016-08-10	2671630
CYLINDER LINER WITH SLOTS	Finland	2015-03-30	20155221		
VARIABLE THICKNESS COATINGS FOR CYLINDER LINERS	France	2013-06-20	13173010.3	2017-08-09	2677152
EMISSIONS CONTROL IN STATIONARY RICH BURN ENGINES	France	2014-07-01	14175159.4	2017-12-13	2821609
SYSTEMS AND METHODS FOR CONTROLLING EMISSIONS IN AN INTERNAL COMBUSTION ENGINE THROUGH THE CONTROL OF TEMPERATURE AT THE INLET OF AN AMMONIA SLIP CATALYST ASSEMBLY	France	2015-01-13	15150923.9	2017-08-16	2894306

EXHAUST AFTERTREATMENT SYSTEM WITH AGING MONITORING OF AN AMMONIA SLIP CATALYST	France	2015-04-15	15163722.0	2017-06-14	2933450
METHOD AND SYSTEM FOR CONTROL OF EMISSIONS IN EXHAUST AFTERTREATMENT SYSTEM	France	2015-12-09	15198666.8	2017-08-16	3032057
ORGANIC RANKINE CYCLE SYSTEMS USING WASTE HEAT FROM CHARGE AIR COOLING	Germany (Federal Republic of)	2012-05-03	12166544.2	2016-04-13	60201201696 0.5
VARIABLE THICKNESS COATINGS FOR CYLINDER LINERS	Germany (Federal Republic of)	2013-06-20	13173010.3	2017-08-09	60201302466 2.9
SYSTEMS AND METHODS FOR SPARK TIMING RETARDATION	Germany (Federal Republic of)				
Mixing chamber with spiral channels	Germany (Federal Republic of)	2012-06-07	12171197.2	2016-08-10	2671630
SYSTEM AND METHOD OF EXHAUST GAS RECIRCULATION	Germany (Federal Republic of)	2016-09-16	112016004875 0		
MANIFOLD GASKET ASSEMBLY	Germany (Federal Republic of)	2012-08-07	102012107220 5		
EMISSIONS CONTROL IN STATIONARY RICH BURN ENGINES	Germany (Federal Republic of)	2014-07-01	14175159.4	2017-12-13	60201401840 0.6
SYSTEMS AND METHODS FOR CONTROLLING EMISSIONS IN AN INTERNAL COMBUSTION ENGINE THROUGH THE CONTROL OF TEMPERATURE AT THE INLET OF AN AMMONIA SLIP CATALYST ASSEMBLY	Germany (Federal Republic of)	2015-01-13	15150923.9	2017-08-16	60201500406 7.8

EXHAUST AFTERTREATMENT SYSTEM WITH AGING MONITORING OF AN AMMONIA SLIP CATALYST	Germany (Federal Republic of)	2015-04-15	15163722.0	2017-06-14	60201500306 5.6
CYLINDER LINER WITH SLOTS	Germany (Federal Republic of)	2015-04-07	102015105223 .7		
DRILLING SYSTEM AND POWER SUPPLY METHOD	Germany (Federal Republic of)	2015-06-18	102015109723 .0		
EXHAUST AFTERTREATMENT SYSTEM WITH CATALYTIC DEACTIVATION MONITORING	Germany (Federal Republic of)	2015-04-13	15163404.5	2018-02-28	60201500822 8.1
SPARK PLUG ELECTRODE GAP SETTING TOOL	Germany (Federal Republic of)	2015-10-05	15188410.3	2018-07-04	60201501294 3.1
METHODS AND SYSTEMS TO CONTROL EXHAUST GAS RECIRCULATION	Germany (Federal Republic of)	2016-06-08	112016002802 .4		
METHOD AND SYSTEM FOR CONTROL OF EMISSIONS IN EXHAUST AFTERTREATMENT SYSTEM	Germany (Federal Republic of)	2015-12-09	15198666.8	2017-08-16	60201400415 9.3
SYSTEM AND METHOD FOR DETERMINING KNOCK MARGIN FOR MULTI- CYLINDER ENGINES	Germany (Federal Republic of)	2016-05-04	112016002038 .4		
METHOD AND SYSTEM OF DIAGNOSING A KNOCK SENSOR	Germany (Federal Republic of)	2016-02-05	16154442.4	2018-04-18	60201600242 2.5
SYSTEM AND METHOD FOR DETECTING OPERATING EVENTS OF AN ENGINE	Germany (Federal Republic of)	2016-01-28	16153229.6	2017-12-06	60201600097 7.3
METHODS AND SYSTEMS TO CHARACTERIZE NOISES SENSED BY A KNOCK SENSOR	Germany (Federal Republic of)	2015-12-21	15201539.2	2017-10-25	60201500559 6.9

SYSTEMS AND METHODS FOR DETECTION OF ENGINE COMPONENT CONDITIONS VIA EXTERNAL SENSORS	Germany (Federal Republic of)	2016-06-24	112016002938.1		
METHODS TO ADAPT AIR-FUEL A/F CONTROLS FOR CATALYST AGING	Germany (Federal Republic of)	2016-09-16	112016005242.1		
METHODS TO ADAPT REDUCTANT INJECTION CONTROLS FOR CATALYST AGING	Germany (Federal Republic of)	2016-09-16	112016005241.3		
SYSTEM AND METHOD FOR VALVE EVENT DETECTION AND CONTROL	Germany (Federal Republic of)	2018-07-03	102018116027.5		
SYSTEM AND METHOD FOR DETECTING OPERATING EVENTS OF AN ENGINE VIA MIDI	Germany (Federal Republic of)	2018-08-02	10 2018 118 775.0		
Optimized cylinder head exhaust port and water-cooled exhaust valve guide for maximum cooling of the guide	Germany (Federal Republic of)				
SYSTEM AND METHOD FOR COMPRESSOR SCHEDULING	Germany (Federal Republic of)	2018-09-17	102018122694.2		
PISTON ASSEMBLY WITH OFFSET TIGHT LAND PROFILE	Germany (Federal Republic of)				
SYSTEMS AND METHODS FOR MODEL BASED CONTROL OF CATALYTIC CONVERTER SYSTEMS	Germany (Federal Republic of)	2015-12-10	15199342.5	2018-10-03	60201501742 5.9
SYSTEM AND METHOD FOR INJECTION CONTROL OF UREA IN SELECTIVE CATALYST REDUCTION	Germany (Federal Republic of)	2016-04-13	16165045.2	2018-10-03	60201600614 6.5
SYSTEM AND METHOD FOR INJECTION CONTROL OF UREA IN SELECTIVE CATALYST REDUCTION	Germany (Federal Republic of)	2016-04-13	16165045.2	2018-10-03	60201600614 6.5
SYSTEM AND METHOD FOR BALANCING LOAD IN POWER BLOCKS	India	2007-12-24	3086/CHE/2007		

ELECTROMAGNETIC BRAKING SYSTEMS AND METHODS	India	2013-06-05	1686/DEL/2013		
SYSTEM FOR COOLING POWER GENERATION SYSTEM	India	2014-02-28	1042/CHE/2014		
Rich Burn Internal Combustion Engine Catalyst Control	India	2014-02-03	485/CHE/2014		
SYSTEM AND PROGRAM PRODUCT FOR CONTROLLING EXHAUST GAS TEMPERATURE OF ENGINE SYSTEM	India	2014-11-25	5910/CHE/2014		
POWER GENERATION SYSTEM AND METHOD WITH FAULT RIDE THROUGH CAPABILITY	India	2014-11-11	5669/CHE/2014		
ONBOARD CATALYST HEALTH MONITORING AND CONTROL SYSTEM ADAPTATION IN INTERNAL COMBUSTION ENGINES	India	2014-11-11	5668/CHE/2014		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	India	2015-06-05	2815/CHE/2015		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	India	2015-06-05	2816/CHE/2015		
SYSTEM FOR CONTROLLING DEPOSITS ON CYLINDER LINER AND PISTON OF RECIPROCATING ENGINE	India	2015-08-13	4220/CHE/2015		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	India	2015-05-27	2656/CHE/2015		
PISTON WITH REDUCED TOP LAND HEIGHT AND TIGHT TOP LAND PISTON PROFILE	India	2015-01-05	82/CHE/2015		

SYSTEMS AND METHODS FOR CONTROLLING EMISSIONS IN AN INTERNAL COMBUSTION ENGINE THROUGH THE CONTROL OF TEMPERATURE AT THE INLET OF AN AMMONIA SLIP CATALYST ASSEMBLY	India	2015-01-06	98/CHE/2015		
SYSTEMS AND METHODS FOR MODEL BASED CONTROL OF CATALYTIC CONVERTER SYSTEMS	India	2015-12-08	6545/CHE/2015		
SPARK PLUG ELECTRODE GAP SETTING TOOL	India	2015-09-26	5141/CHE/2015		
POWER GENERATION SYSTEM AND METHOD WITH RESISTIVE BRAKING CAPABILITY	India	2015-12-11	6658/CHE/2015		
SYSTEMS AND METHODS FOR CONTROLLING AFTERTREATMENT SYSTEMS	India	2016-03-02	201644007271		
SYSTEM AND METHOD FOR LOCATING ENGINE NOISE	India	2015-12-23	6860/CHE/2015		
KNOCK SENSOR SYSTEMS AND METHODS FOR DETECTION OF COMPONENT CONDITIONS	India	2016-04-21	201644013824		
SENSOR FOR DETERMINING ENGINE CHARACTERISTICS	India	2015-12-30	7072/CHE/2015		
METHOD AND SYSTEM TO DETERMINE LOCATION OF PEAK FIRING PRESSURE	India	2016-02-17	201644005486		
SYSTEM AND METHOD FOR DETECTING RECIPROCATING DEVICE ABNORMALITIES UTILIZING STANDARD QUALITY CONTROL TECHNIQUES	India	2016-01-06	201644000441		

SYSTEM AND METHOD FOR MODEL BASED AND MAP BASED THROTTLE POSITION DERIVATION AND MONITORING	India	2016-02-04	201644003930		
INDUCTION GENERATOR SYSTEM WITH A GRID-LOSS RIDE-THROUGH CAPABILITY	India	2014-10-21	5251/CHE/2014		
SYSTEMS AND METHODS TO DISTINGUISH ENGINE KNOCK FROM PISTON SLAP	India	2016-03-09	201644008132		
METHODS AND SYSTEMS TO DERIVE KNOCK SENSOR CONDITIONS	India	2016-02-04	201644003933		
SYSTEM AND METHOD FOR DETECTING OPERATING EVENTS OF AN ENGINE	India	2016-01-25	201644002813		
METHODS AND SYSTEMS TO CHARACTERIZE NOISES SENSED BY A KNOCK SENSOR	India	2015-12-23	6857/CHE/2015		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	India	2016-01-06	201644000498		
SYSTEM AND METHOD FOR IMPROVED JOURNAL BEARING OPERATIONS	India	2015-12-18	6773/CHE/2015		
METHODS AND SYSTEMS TO DERIVE ENGINE COMPONENT HEALTH USING TOTAL HARMONIC DISTORTION IN A KNOCK SENSOR SIGNAL	India	2016-02-12	201644004935		
SYSTEM AND METHOD FOR LOCATING AN ENGINE EVENT	India	2016-03-15	201644008944		
COATING OF A JOURNAL BEARING SYSTEM AND AN ASSOCIATED METHOD THEREOF	India	2015-12-22	6841/CHE/2015		
COATING OF A VALVE SYSTEM AND AN ASSOCIATED METHOD THEREOF	India	2015-12-22	6842/CHE/2015		

JOINT-LESS CONTINUOUS JOURNAL BEARINGS	India	2016-12-16	201641042871		
AN ENGINE AND A METHOD OF OPERATING THE SAME	India	2017-02-10	201741004931		
SYSTEM AND METHOD FOR PISTON RING PROGNOSTIC	India	2017-08-18	201741029279		
SYSTEM AND METHOD FOR LOCATING ENGINE NOISE	Israel	2015-12-15	243143		
ORGANIC RANKINE CYCLE SYSTEMS USING WASTE HEAT FROM CHARGE AIR COOLING	Italy	2012-05-03	502016000063032	2016-04-13	2522828
INTEGRATED REFORMER AND WASTE HEAT RECOVERY SYSTEM FOR POWER GENERATION	Italy	2013-10-10	MI2013A001675	2016-01-12	1420385
VARIABLE THICKNESS COATINGS FOR CYLINDER LINERS	Italy	2013-06-20	502017000126501	2017-08-09	2677152
Mixing chamber with spiral channels	Italy	2012-06-07	502016000094734	2016-08-10	2671630
EMISSIONS CONTROL IN STATIONARY RICH BURN ENGINES	Italy	2014-07-01	502018000007795	2017-12-13	2821609
SYSTEMS AND METHODS FOR CONTROLLING EMISSIONS IN AN INTERNAL COMBUSTION ENGINE THROUGH THE CONTROL OF TEMPERATURE AT THE INLET OF AN AMMONIA SLIP CATALYST ASSEMBLY	Italy	2015-01-13	502017000129163	2017-08-16	2894306
EXHAUST AFTERTREATMENT SYSTEM WITH AGING MONITORING OF AN AMMONIA SLIP CATALYST	Italy	2015-04-15	502017000096691	2017-06-14	2933450
SPARK PLUG ELECTRODE GAP SETTING TOOL	Italy	2015-10-05	15188410.3	2018-07-04	3006163

METHOD AND SYSTEM FOR CONTROL OF EMISSIONS IN EXHAUST AFTERTREATMENT SYSTEM	Italy	2015-12-09	502017000128532	2017-08-16	3032057
VARIABLE THICKNESS COATINGS FOR CYLINDER LINERS	Japan	2013-06-17	2013-126218	2017-10-27	6231781
SYSTEMS AND METHODS FOR SPARK TIMING RETARDATION	Japan				
GAS DOSAGE CONTROL FOR GAS ENGINE	Japan	2014-04-23	2014-088709		
EMISSIONS CONTROL IN DIESEL ENGINES	Japan	2014-11-17	2014-232291		
SYSTEM AND METHOD FOR CONTROL OF EXHAUST GAS RECIRCULATION EGR UTILIZING PROCESS TEMPERATURES	Japan	2014-10-06	2014-205428		
SYSTEM AND PROGRAM PRODUCT FOR CONTROLLING EXHAUST GAS TEMPERATURE OF ENGINE SYSTEM	Japan	2014-12-04	2014-245443		
GASEOUS REDUCTANT INJECTION CONTROL SYSTEM	Japan	2014-10-15	2014-210349		
POWER GENERATION SYSTEM AND METHOD WITH FAULT RIDE THROUGH CAPABILITY	Japan	2014-11-17	2014-232292		
ONBOARD CATALYST HEALTH MONITORING AND CONTROL SYSTEM ADAPTATION IN INTERNAL COMBUSTION ENGINES	Japan	2014-11-17	2014-232294		
Systems and Methods for Monitoring Catalyst Deactivation and Controlling an Air/Fuel Ratio	Japan	2014-09-17	2014-188374		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Japan	2015-06-01	2015-111016		

PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Japan	2015-06-02	2015-111810		
SYSTEM FOR CONTROLLING DEPOSITS ON CYLINDER LINER AND PISTON OF RECIPROCATING ENGINE	Japan	2015-08-14	2015-160008		
EMISSION CONTROL IN RICH BURN NATURAL GAS ENGINES	Japan	2015-03-20	2015-057029		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Japan	2015-06-02	2015-111811		
BASE-FRAME ASSEMBLY FOR A COMBUSTION ENGINE	Japan	2016-05-06	2016-092921		
PISTON WITH REDUCED TOP LAND HEIGHT AND TIGHT TOP LAND PISTON PROFILE	Japan	2015-01-08	2015-001930		
SYSTEMS AND METHODS FOR CONTROLLING EMISSIONS IN AN INTERNAL COMBUSTION ENGINE THROUGH THE CONTROL OF TEMPERATURE AT THE INLET OF AN AMMONIA SLIP CATALYST ASSEMBLY	Japan	2015-01-09	2015-002718		
EXHAUST AFTER TREATMENT SYSTEM WITH CATALYTIC DEACTIVATION MONITORING	Japan	2015-04-09	2015-079650		
CONDITION BASED ENGINE PARTS MONITORING	Japan	2016-02-26	2016-035004		
SYSTEM AND METHOD FOR IMPROVING RESPONSE TIME OF A BRAKING UNIT	Japan	2015-07-22	2015-144650		
SYSTEMS AND METHODS FOR MODEL BASED CONTROL OF CATALYTIC CONVERTER SYSTEMS	Japan	2015-12-04	2015-237084		

EXHAUST AFTERTREATMENT SYSTEM WITH CATALYTIC DEACTIVATION MONITORING	Japan	2015-04-08	2015-078846		
SPARK PLUG ELECTRODE GAP SETTING TOOL	Japan	2015-10-02	2015-196349		
POWER GENERATION SYSTEM AND METHOD WITH RESISTIVE BRAKING CAPABILITY	Japan	2015-12-03	2015-236194		
SYSTEMS AND METHODS FOR CONTROLLING AFTERTREATMENT SYSTEMS	Japan	2016-02-25	2016-033703		
SYSTEM AND METHOD FOR LOCATING ENGINE NOISE	Japan	2015-12-24	2015-250816		
KNOCK SENSOR SYSTEMS AND METHODS FOR DETECTION OF COMPONENT CONDITIONS	Japan	2016-04-15	2016-081598		
SENSOR FOR DETERMINING ENGINE CHARACTERISTICS	Japan	2015-12-25	2015-252726		
METHOD AND SYSTEM TO DETERMINE LOCATION OF PEAK FIRING PRESSURE	Japan	2016-02-12	2016-024304		
SYSTEM AND METHOD FOR DETECTING RECIPROCATING DEVICE ABNORMALITIES UTILIZING STANDARD QUALITY CONTROL TECHNIQUES	Japan	2015-12-29	2015-257553		
SYSTEM AND METHOD FOR MODEL BASED AND MAP BASED THROTTLE POSITION DERIVATION AND MONITORING	Japan	2016-01-28	2016-013886		
INDUCTION GENERATOR SYSTEM WITH A GRID- LOSS RIDE-THROUGH CAPABILITY	Japan	2015-10-15	2015-203318		

SYSTEMS AND METHODS TO DISTINGUISH ENGINE KNOCK FROM PISTON SLAP	Japan	2016-03-04	2016-041659		
METHODS AND SYSTEMS TO DERIVE KNOCK SENSOR CONDITIONS	Japan	2016-02-02	2016-017592		
SYSTEM AND METHOD FOR DETECTING OPERATING EVENTS OF AN ENGINE	Japan	2016-01-22	2016-010206		
METHODS AND SYSTEMS TO CHARACTERIZE NOISES SENSED BY A KNOCK SENSOR	Japan	2015-12-24	2015-250817		
KNOCK SENSOR NETWORK SYSTEMS AND METHODS FOR CHARACTERIZING NOISES	Japan	2016-03-18	2017-551075		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Japan	2016-01-06	2016-000775		
SYSTEMS AND METHODS FOR ESTIMATING A TIME OF AN ENGINE EVENT	Japan	2016-03-31	2016-069870		
METHODS AND SYSTEMS TO DERIVE ENGINE COMPONENT HEALTH USING TOTAL HARMONIC DISTORTION IN A KNOCK SENSOR SIGNAL	Japan	2016-02-04	2016-019410		
SYSTEM AND METHOD FOR LOCATING AN ENGINE EVENT	Japan	2016-03-16	2016-051793		
SYSTEM AND METHOD FOR INJECTION CONTROL OF UREA IN SELECTIVE CATALYST REDUCTION	Japan	2016-04-08	2016-077703		
DUAL FUEL SYSTEM FOR A COMBUSTION ENGINE	Japan	2016-06-23	2017-567618		
RECIPROCATING COMPRESSOR FLOW SENSING	Japan	2017-10-04	2017-193924		
JOINT-LESS CONTINUOUS JOURNAL BEARINGS	Japan	2017-12-04	2017-232273		

VARIABLE THICKNESS COATINGS FOR CYLINDER LINERS	Korea, Republic of (KR)	2013-06-19	1020130070330		
GAS DOSAGE CONTROL FOR GAS ENGINE	Korea, Republic of (KR)	2014-05-07	2014-0054162	2016-07-07	10-1639203
Rich Burn Internal Combustion Engine Catalyst Control	Korea, Republic of (KR)	2014-02-05	2014-0012897		
EMISSIONS CONTROL IN DIESEL ENGINES	Korea, Republic of (KR)	2014-11-17	10-2014-0160067		
SYSTEM AND PROGRAM PRODUCT FOR CONTROLLING EXHAUST GAS TEMPERATURE OF ENGINE SYSTEM	Korea, Republic of (KR)	2014-12-10	1020140177443		
GASEOUS REDUCTANT INJECTION CONTROL SYSTEM	Korea, Republic of (KR)	2014-10-16	1020140139567		
POWER GENERATION SYSTEM AND METHOD WITH FAULT RIDE THROUGH CAPABILITY	Korea, Republic of (KR)	2014-11-07	1020140154206		
ONBOARD CATALYST HEALTH MONITORING AND CONTROL SYSTEM ADAPTATION IN INTERNAL COMBUSTION ENGINES	Korea, Republic of (KR)	2014-11-18	1020140160969		
Systems and Methods for Monitoring Catalyst Deactivation and Controlling an Air/Fuel Ratio	Korea, Republic of (KR)	2014-09-19	1020140124801		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Korea, Republic of (KR)	2015-06-04	10-2015-0079093		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Korea, Republic of (KR)	2015-06-03	10-20150078435		
SYSTEM FOR CONTROLLING DEPOSITS ON CYLINDER LINER AND PISTON OF RECIPROCATING ENGINE	Korea, Republic of (KR)	2015-08-11	10-2015-0112972		

EMISSION CONTROL IN RICH BURN NATURAL GAS ENGINES	Korea, Republic of (KR)	2015-03-26	1020150042347		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Korea, Republic of (KR)	2015-06-05	10-2015-0079686		
BASE-FRAME ASSEMBLY FOR A COMBUSTION ENGINE	Korea, Republic of (KR)	2016-05-10	10-2016-0056913		
PISTON WITH REDUCED TOP LAND HEIGHT AND TIGHT TOP LAND PISTON PROFILE	Korea, Republic of (KR)	2015-01-12	1020150004016		
SYSTEMS AND METHODS FOR CONTROLLING EMISSIONS IN AN INTERNAL COMBUSTION ENGINE THROUGH THE CONTROL OF TEMPERATURE AT THE INLET OF AN AMMONIA SLIP CATALYST ASSEMBLY	Korea, Republic of (KR)	2015-01-09	1020150003327		
EXHAUST AFTER TREATMENT SYSTEM WITH CATALYTIC DEACTIVATION MONITORING	Korea, Republic of (KR)	2015-04-14	10-2015-0052329		
CONDITION BASED ENGINE PARTS MONITORING	Korea, Republic of (KR)	2016-03-03	1020160025706		
SYSTEMS AND METHODS FOR MODEL BASED CONTROL OF CATALYTIC CONVERTER SYSTEMS	Korea, Republic of (KR)	2015-12-11	1020150177111		
EXHAUST AFTERTREATMENT SYSTEM WITH CATALYTIC DEACTIVATION MONITORING	Korea, Republic of (KR)	2015-04-15	10-2015-0053242		
SPARK PLUG ELECTRODE GAP SETTING TOOL	Korea, Republic of (KR)	2015-10-05	1020150139615		

POWER GENERATION SYSTEM AND METHOD WITH RESISTIVE BRAKING CAPABILITY	Korea, Republic of (KR)	2015-12-10	1020150175972		
SYSTEMS AND METHODS FOR CONTROLLING AFTERTREATMENT SYSTEMS	Korea, Republic of (KR)	2016-02-26	1020160023652		
SYSTEM AND METHOD FOR LOCATING ENGINE NOISE	Korea, Republic of (KR)	2015-12-30	1020150190018		
KNOCK SENSOR SYSTEMS AND METHODS FOR DETECTION OF COMPONENT CONDITIONS	Korea, Republic of (KR)	2016-04-15	1020160046298		
SENSOR FOR DETERMINING ENGINE CHARACTERISTICS	Korea, Republic of (KR)	2016-01-04	1020160000230		
METHOD AND SYSTEM TO DETERMINE LOCATION OF PEAK FIRING PRESSURE	Korea, Republic of (KR)	2016-02-15	1020160017022		
SYSTEM AND METHOD FOR DETECTING RECIPROCATING DEVICE ABNORMALITIES UTILIZING STANDARD QUALITY CONTROL TECHNIQUES	Korea, Republic of (KR)	2016-01-05	2016-0000845		
SYSTEM AND METHOD FOR MODEL BASED AND MAP BASED THROTTLE POSITION DERIVATION AND MONITORING	Korea, Republic of (KR)	2016-02-04	1020160014408		
INDUCTION GENERATOR SYSTEM WITH A GRID-LOSS RIDE-THROUGH CAPABILITY	Korea, Republic of (KR)	2015-10-15	1020150143895		
SYSTEMS AND METHODS TO DISTINGUISH ENGINE KNOCK FROM PISTON SLAP	Korea, Republic of (KR)	2016-03-07	1020160026994		
SYSTEM AND METHOD FOR DETECTING OPERATING EVENTS OF AN ENGINE	Korea, Republic of (KR)	2016-01-29	1020160011581		

METHODS AND SYSTEMS TO CHARACTERIZE NOISES SENSED BY A KNOCK SENSOR	Korea, Republic of (KR)	2015-12-30	1020150189745		
KNOCK SENSOR NETWORK SYSTEMS AND METHODS FOR CHARACTERIZING NOISES	Korea, Republic of (KR)	2016-03-18	1020177031651		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	Korea, Republic of (KR)	2016-01-05	10-2016-0000871		
SYSTEMS AND METHODS FOR ESTIMATING A TIME OF AN ENGINE EVENT	Korea, Republic of (KR)	2016-03-30	1020160038374		
METHODS AND SYSTEMS TO DERIVE ENGINE COMPONENT HEALTH USING TOTAL HARMONIC DISTORTION IN A KNOCK SENSOR SIGNAL	Korea, Republic of (KR)	2016-02-03	1020160013349		
SYSTEM AND METHOD FOR LOCATING AN ENGINE EVENT	Korea, Republic of (KR)	2016-03-24	1020160035401		
DUAL FUEL SYSTEM FOR A COMBUSTION ENGINE	Korea, Republic of (KR)	2016-06-23	1020187003902		
RECIPROCATING COMPRESSOR FLOW SENSING	Korea, Republic of (KR)	2017-10-11	10- 2017-0130176		
JOINT-LESS CONTINUOUS JOURNAL BEARINGS	Korea, Republic of (KR)	2017-12-14	1020170172082		
ORGANIC RANKINE CYCLE SYSTEMS USING WASTE HEAT FROM CHARGE AIR COOLING	Netherlands	2012-05-03	12166544.2	2016-04-13	2522828
Mixing chamber with spiral channels	Norway	2012-06-07	12171197.2	2016-08-10	2671630
SYSTEM AND METHOD FOR OXIDANT TEMPERATURE CONTROL	Patent Cooperation Treaty	2016-06-08	PCT/US2016/036436		
METHOD AND SYSTEM FOR PORTABLE ENGINE HEALTH MONITORING	Patent Cooperation Treaty	2016-06-29	PCT/US16/039927		

COATING OF A SYSTEM AND AN ASSOCIATED METHOD THEREOF	Patent Cooperation Treaty	2016-12-21	PCT/US2016/068002		
SYSTEM AND METHOD FOR LOCATING AN ENGINE EVENT	Patent Cooperation Treaty	2016-08-31	PCT/US2016/049694		
RECIPROCATING ENGINE SYSTEM WITH ELECTRICALLY DRIVEN COMPRESSOR AND METHOD FOR OPERATING SAME	Patent Cooperation Treaty	2018-01-11	PCT/US2018/013250		
REGENERATIVE THERMAL OXIDIZER SYSTEM AND METHOD FOR OPERATING REGENERATIVE THERMAL OXIDIZER SYSTEM	Patent Cooperation Treaty	2017-06-23	PCT/CN2017/089712		
SYSTEM AND METHOD FOR INSTALLING SPARK PLUGS	Patent Cooperation Treaty	2018-01-30	PCT/US18/015877		
DRILLING SYSTEM AND POWER SUPPLY METHOD	Russian Federation	2015-06-17	2015123290		
Mixing chamber with spiral channels	Spain	2012-06-07	12171197.2	2016-08-10	2671630
VARIABLE THICKNESS COATINGS FOR CYLINDER LINERS	Switzerland	2013-06-20	13173010.3	2017-08-09	2677152
SYSTEMS AND METHODS FOR CONTROLLING EMISSIONS IN AN INTERNAL COMBUSTION ENGINE THROUGH THE CONTROL OF TEMPERATURE AT THE INLET OF AN AMMONIA SLIP CATALYST ASSEMBLY	Switzerland	2015-01-13	15150923.9	2017-08-16	2894306
METHOD AND SYSTEM FOR CONTROL OF EMISSIONS IN EXHAUST AFTERTREATMENT SYSTEM	Switzerland	2015-12-09	15198666.8	2017-08-16	3032057
EMISSIONS CONTROL IN STATIONARY RICH BURN ENGINES	United Kingdom	2014-07-01	14175159.4	2017-12-13	2821609

EXHAUST AFTERTREATMENT SYSTEM WITH AGING MONITORING OF AN AMMONIA SLIP CATALYST	United Kingdom	2015-04-15	15163722.0	2017-06-14	2933450
SPARK PLUG ELECTRODE GAP SETTING TOOL	United Kingdom	2015-10-05	15188410.3	2018-07-04	3006163
SYSTEM AND METHOD FOR POWER GENERATION IN RANKINE CYCLE	United States of America	2006-12-13	11/609919	2009-09-29	7594399
ADAPTIVE MILLER CYCLE ENGINE	United States of America	2008-02-29	12/040225	2010-04-06	7690336
SYSTEM AND METHOD FOR RECOVERING WASTE HEAT	United States of America	2007-06-29	11/770895	2013-10-22	8561405
SYSTEM AND METHOD FOR CONTROLLING AN EXPANSION SYSTEM	United States of America	2007-12-14	11/956457	2012-05-29	8186161
TWO-PHASE EXPANSION SYSTEM AND METHOD FOR ENERGY RECOVERY	United States of America	2008-11-20	12/274608	2011-08-02	7987676
SYSTEM FOR CLOSED- LOOP CONTROL OF COMBUSTION IN ENGINES	United States of America	2008-11-14	12/270878	2011-08-09	7996142
TURBINE EXHAUST RECIRCULATION	United States of America	2009-08-27	12/548526	2013-07-09	8479489
SPIRAL RECUPERATIVE HEAT EXCHANGING SYSTEM	United States of America	2009-11-30	12/627059	2014-05-13	8721981
POWER GENERATION SYSTEM AND METHOD WITH VOLTAGE FAULT RIDE-THROUGH CAPABILITY	United States of America	2009-11-04	12/611988	2014-04-08	8692523
AUTO OPTIMIZING CONTROL SYSTEM FOR ORGANIC RANKINE CYCLE PLANTS	United States of America	2010-02-25	12/712954	2013-11-26	8590307
SYSTEM AND METHOD FOR COOLING AN EXPANDER	United States of America	2010-09-29	12/892973	2014-06-03	8739541
TURBINE INLET CONDITION CONTROLLED ORGANIC RANKINE CYCLE	United States of America	2010-06-18	12/818234	2014-08-26	8813498

INTEGRATED GENERATOR COOLING SYSTEM	United States of America	2011-04-29	13/097101	2014-11-04	8875515
ELECTROMAGNETIC BRAKING SYSTEMS AND METHODS	United States of America	2012-06-28	13/536245	2016-08-09	9413217B2
ORGANIC RANKINE CYCLE SYSTEMS USING WASTE HEAT FROM CHARGE AIR COOLING	United States of America	2011-05-13	13/106929	2012-11-06	8302399
INTEGRATION OF WASTE HEAT FROM CHARGE AIR COOLING INTO A CASCADED ORGANIC RANKINE CYCLE SYSTEM	United States of America	2011-04-20	13/090363	2014-02-18	8650879
SYSTEMS AND METHODS FOR COLD STARTUP OF RANKINE CYCLE DEVICES	United States of America	2012-01-06	13/344679	2016-02-02	9249691B2
INTEGRATED REFORMER AND WASTE HEAT RECOVERY SYSTEM FOR POWER GENERATION	United States of America	2012-10-24	13/658986	2017-07-18	9708973
VARIABLE THICKNESS COATINGS FOR CYLINDER LINERS	United States of America	2012-06-20	13/527699	2017-01-03	9534559
METHOD OF PRODUCING A SPARK GAP FOR AN ELECTRODE SUPPORT USING SACRIFICIAL MATERIAL	United States of America	2012-01-24	13/357307	2013-07-16	8485857
SYSTEMS AND METHODS FOR SPARK TIMING RETARDATION	United States of America	2017-11-27	15/823303		
MIXING DEVICE HAVING A PLURALITY OF MIXING CHANNELS	United States of America	2012-11-29	13/688518	2016-02-23	9266074B2
SYSTEM AND METHOD OF EXHAUST GAS RECIRCULATION	United States of America	2015-11-18	14/945322	2018-03-27	9926891
METHOD OF PRODUCING AN ELECTRODE SUPPORT USING BRAZING	United States of America	2012-01-24	13/357314	2014-12-16	8912713
SYSTEM FOR COOLING POWER GENERATION SYSTEM	United States of America	2013-03-04	13/783662	2014-12-30	8922033B2

GAS DOSAGE CONTROL FOR GAS ENGINE	United States of America	2013-05-10	13/891807	2017-02-28	9581089
Rich Burn Internal Combustion Engine Catalyst Control	United States of America	2013-02-06	13/760630	2014-11-18	8887490
LAMBDA VIRTUAL SENSOR SYSTEMS AND METHODS FOR A COMBUSTION ENGINE	United States of America	2015-08-11	14/823806	2017-08-01	9719445
Emissions Control in Stationary Rich Burn Engines	United States of America	2013-07-02	13/933766	2015-06-16	9057301
SYSTEM AND METHOD FOR CONTROL OF EXHAUST GAS RECIRCULATION EGR UTILIZING PROCESS TEMPERATURES	United States of America	2013-10-11	14/052243	2016-08-23	9422877B2
SYSTEM AND PROGRAM PRODUCT FOR CONTROLLING EXHAUST GAS TEMPERATURE OF ENGINE SYSTEM	United States of America	2013-12-11	14/102615	2017-12-26	9850841
GASEOUS REDUCTANT INJECTION CONTROL SYSTEM	United States of America	2013-10-24	14/062098	2016-01-26	9243534B2
ONBOARD CATALYST HEALTH MONITORING AND CONTROL SYSTEM ADAPTATION IN INTERNAL COMBUSTION ENGINES	United States of America	2013-11-19	14/083823	2016-09-06	9435246B2
Systems and Methods for Monitoring Catalyst Deactivation and Controlling an Air/Fuel Ratio	United States of America	2013-09-26	14/038014	2017-05-30	9664094
SYSTEMS AND METHODS FOR CONTROLLING ACCELERATION OF A POWER GENERATOR	United States of America	2014-11-13	14/540536	2017-03-21	9601918
POWER INTEGRATED SYSTEM AND METHOD FOR DRILLING RIG AND OIL/GAS PRODUCTION EQUIPMENT	United States of America	2015-02-05	14/614705	2018-07-10	10018044

PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	United States of America	2014-06-06	14/298864	2016-10-18	9470179B2
CYLINDER HEAD ACCELERATION MEASUREMENT FOR VALVE TRAIN DIAGNOSTICS SYSTEM AND METHOD	United States of America	2015-06-22	14/745986	2018-04-03	9933334
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	United States of America	2014-06-06	14/298867	2015-12-01	9200589
SYSTEM FOR CONTROLLING DEPOSITS ON CYLINDER LINER AND PISTON OF RECIPROCATING ENGINE	United States of America	2014-08-21	14/465564	2016-06-07	9359971B2
SYSTEM AND METHOD FOR ENGINE CONTROL	United States of America	2015-08-06	15/749627		
EMISSION CONTROL IN RICH BURN NATURAL GAS ENGINES	United States of America	2014-03-27	14/226934	2015-10-06	9149768
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	United States of America	2014-06-06	14/298869	2016-05-10	9334830B2
BASE-FRAME ASSEMBLY FOR A COMBUSTION ENGINE	United States of America	2015-05-12	14/710257	2018-04-03	9932893
PISTON WITH REDUCED TOP LAND HEIGHT AND TIGHT TOP LAND PISTON PROFILE	United States of America	2014-01-14	14/154462	2018-04-03	9932930
SYSTEMS AND METHODS FOR CONTROLLING EMISSIONS IN AN INTERNAL COMBUSTION ENGINE THROUGH THE CONTROL OF TEMPERATURE AT THE INLET OF AN AMMONIA SLIP CATALYST ASSEMBLY	United States of America	2014-01-14	14/154418	2015-06-16	9056279

EXHAUST AFTERTREATMENT SYSTEM WITH CATALYTIC DEACTIVATION MONITORING	United States of America	2014-04-15	14/252849	2016-02-23	9267412B2
SYSTEMS AND METHODS FOR USING TRANSPORT TIME TO ESTIMATE ENGINE AFTERTREATMENT SYSTEM CHARACTERISTICS	United States of America	2015-04-07	14/680934	2017-05-23	9657678
CYLINDER LINER WITH SLOTS	United States of America	2014-04-07	14/246301	2015-11-24	9194327
SYSTEMS AND METHODS FOR IN-CYLINDER PRESSURE ESTIMATION USING PRESSURE WAVE MODELING	United States of America	2015-10-26	14/923009		
CONDITION BASED ENGINE PARTS MONITORING	United States of America	2015-03-05	14/639704		
SYSTEM AND METHOD FOR IMPROVING RESPONSE TIME OF A BRAKING UNIT	United States of America	2014-07-24	14/339552	2016-08-02	9407187B2
SYSTEMS AND METHODS FOR MODEL BASED CONTROL OF CATALYTIC CONVERTER SYSTEMS	United States of America	2014-12-12	14/569213	2017-03-28	9605579
DRILLING SYSTEM AND POWER SUPPLY METHOD	United States of America	2015-06-18	14/743444	2018-07-10	10017993
EXHAUST AFTERTREATMENT SYSTEM WITH CATALYTIC DEACTIVATION MONITORING	United States of America	2014-04-15	14/252890	2016-01-05	9228469B2
SYSTEMS AND METHODS FOR DETECTING ANOMALIES AT IN- CYLINDER PRESSURE SENSORS	United States of America	2015-10-26	14/923032	2017-03-07	9587552

SPARK PLUG ELECTRODE GAP SETTING TOOL	United States of America	2014-10-08	14/509727	2016-08-30	9431797B2
POWER GENERATION SYSTEM AND METHOD WITH RESISTIVE BRAKING CAPABILITY	United States of America	2014-12-11	14/566749	2018-08-14	10050433
SYSTEMS AND METHODS FOR CONTROLLING AFTERTREATMENT SYSTEMS	United States of America	2015-03-02	14/635816	2016-12-13	9517437B2
SYSTEM AND METHOD FOR LOCATING ENGINE NOISE	United States of America	2014-12-31	14/587434	2017-09-05	9752949
HUMAN MACHINE INTERFACE (HMI) GUIDED MECHANICAL FUEL SYSTEM ADJUSTMENT	United States of America	2014-11-12	14/539539	2017-08-01	9719454
KNOCK SENSOR SYSTEMS AND METHODS FOR DETECTION OF COMPONENT CONDITIONS	United States of America	2015-04-24	14/695335		
METHOD AND SYSTEM TO DETERMINE LOCATION OF PEAK FIRING PRESSURE	United States of America	2015-02-19	14/626585	2018-06-19	10001077
SYSTEM AND METHOD FOR DETECTING RECIPROCATING DEVICE ABNORMALITIES UTILIZING STANDARD QUALITY CONTROL TECHNIQUES	United States of America	2015-01-07	14/591192	2017-10-31	9803567
SYSTEM AND METHOD FOR ENGINE EMISSION CONTROL HARNESS	United States of America	2015-02-19	14/626511		
SYSTEM AND METHOD FOR MODEL BASED AND MAP BASED THROTTLE POSITION DERIVATION AND MONITORING	United States of America	2015-02-04	14/614237	2016-12-27	9528445B2
METHODS AND SYSTEMS TO CONTROL EXHAUST GAS RECIRCULATION	United States of America	2015-06-22	14/745868	2018-01-09	9863344

INDUCTION GENERATOR SYSTEM WITH A GRID-LOSS RIDE-THROUGH CAPABILITY	United States of America	2015-10-21	14/918950	2018-09-18	10079485
SILENCER FOR MID-BED AIR INJECTION MIXING	United States of America	2014-11-26	14/554706	2016-05-24	9347358B1
SYSTEM AND METHOD OF COOLING VALVE WITH MATERIAL IN CAVITY	United States of America	2014-12-10	14/565827	2017-06-20	9683467
METHOD AND SYSTEM FOR CONTROL OF EMISSIONS IN EXHAUST AFTERTREATMENT SYSTEM	United States of America	2014-12-12	14/568580	2016-07-26	9399965B2
SYSTEM AND METHOD FOR DETECTION OF CHANGES TO COMPRESSION RATIO AND PEAK FIRING PRESSURE OF AN ENGINE	United States of America	2015-07-02	14/790785		
SYSTEMS AND METHODS TO DISTINGUISH ENGINE KNOCK FROM PISTON SLAP	United States of America	2015-03-11	14/644526	2017-07-04	9695761
SYSTEM AND METHOD FOR REGULATING EXHAUST GAS RECIRCULATION IN AN ENGINE	United States of America	2014-12-31	14/587407	2017-01-31	9556810
ESTIMATION OF CYLINDER CONDITIONS USING A KNOCK SENSOR	United States of America	2017-10-30	15/797555		
SYSTEM AND METHOD FOR DETERMINING KNOCK MARGIN FOR MULTI-CYLINDER ENGINES	United States of America	2015-05-06	14/705081	2017-10-10	9784231
METHODS AND SYSTEMS TO DERIVE KNOCK SENSOR CONDITIONS	United States of America	2015-02-09	14/617458	2018-02-27	9903778
SYSTEM AND METHOD FOR DETECTING OPERATING EVENTS OF AN ENGINE	United States of America	2015-01-29	14/609416	2018-01-23	9874488

KNOCK SENSOR NETWORK SYSTEMS AND METHODS FOR CHARACTERIZING NOISES	United States of America	2015-04-01	14/676733		
PISTON ASSEMBLY FOR A RECIPROCATING ENGINE	United States of America	2015-01-12	14/595013	2017-12-19	9845765
SYSTEMS AND METHODS FOR ESTIMATING A TIME OF AN ENGINE EVENT	United States of America	2015-04-07	14/680863	2018-08-21	10054043
SYSTEM AND METHOD FOR IMPROVED JOURNAL BEARING OPERATIONS	United States of America	2016-11-30	16/063386		
METHODS AND SYSTEMS TO DERIVE ENGINE COMPONENT HEALTH USING TOTAL HARMONIC DISTORTION IN A KNOCK SENSOR SIGNAL	United States of America	2015-02-12	14/621028		
SYSTEM AND METHOD FOR LOCATING AN ENGINE EVENT	United States of America	2015-03-24	14/667275	2017-03-14	9593631
SYSTEM AND METHOD HAVING COUPLING WITH LAYERED PORTION	United States of America	2015-05-11	14/709370	2017-10-31	9803698
SYSTEM AND METHOD FOR INJECTION CONTROL OF UREA IN SELECTIVE CATALYST REDUCTION	United States of America	2015-04-14	14/686350	2016-09-06	9435244B1
CYLINDER HEAD COVER WITH INTEGRAL SLEEVE	United States of America	2015-09-08	14/847904		
SYSTEM AND METHOD FOR DETERMINING LOCATION AND VALUE OF PEAK FIRING PRESSURE	United States of America	2015-08-06	14/820156	2018-02-20	9897021
SYSTEM AND METHOD FOR OXIDANT TEMPERATURE CONTROL	United States of America	2015-07-02	14/790714	2018-03-27	9926836
SYSTEM AND METHOD OF VALVE WEAR DETECTION	United States of America	2017-10-27	15/796124		
REAL TIME DETECTION AND DIAGNOSIS OF CHANGE IN PEAK FIRING PRESSURE	United States of America	2015-12-21	14/977226		

FUEL SYSTEM FOR A COMBUSTION ENGINE	United States of America	2015-08-28	14/839066	2018-04-10	9938933
LAMINAR FLOW OF PISTON COOLING JETS	United States of America	2015-10-20	14/918013	2018-03-27	9926829
SYSTEM AND METHOD FOR CAMSHAFT VIBRATION CONTROL	United States of America	2015-10-13	14/882198	2017-11-07	9810105
A SYSTEM AND METHOD FOR GENERATOR BRAKING	United States of America	2015-08-07	14/821427	2017-01-03	9537301
SYSTEM AND METHOD FOR GENERATOR BRAKING USING LAMINATED BRAKE COMPONENTS	United States of America	2015-08-10	15/751167		
DUAL FUEL SYSTEM FOR A COMBUSTION ENGINE	United States of America	2015-07-10	14/796768	2017-08-29	9745903
ENGINE CONTROLLER AND METHODS FOR CONTROLLING EMISSION AND POWER GENERATION SYSTEM USING THE SAME	United States of America	2016-09-15	15/265865		
METHOD AND ENGINE CONTROLLER FOR DIAGNOSING WASTE GATE VALVE MALFUNCTION AND RELATED POWER GENERATION SYSTEM	United States of America	2016-09-22	15/272474		
AN ANNULAR RING GROOVE OF A PISTON	United States of America	2015-09-28	14/867231		
SYSTEMS AND METHODS FOR DETECTION OF ENGINE COMPONENT CONDITIONS VIA EXTERNAL SENSORS	United States of America	2015-06-29	14/754128	2017-10-10	9784635
METHOD AND SYSTEM FOR PORTABLE ENGINE HEALTH MONITORING	United States of America	2015-06-29	14/754206		
METHODS TO ADAPT AIR-FUEL (A/F) CONTROLS FOR CATALYST AGING	United States of America	2015-11-16	14/942201	2018-02-13	9890723

METHODS TO ADAPT REDUCTANT INJECTION CONTROLS FOR CATALYST AGING	United States of America	2015-11-16	14/942644	2018-06-19	10001046
SYSTEM AND METHOD FOR PREDICTING PEAK PRESSURE VALUES USING KNOCK SENSOR	United States of America	2015-08-19	14/830379	2018-01-16	9869257
SYSTEM AND METHOD FOR VALVE EVENT DETECTION AND CONTROL	United States of America	2017-07-12	15/648257		
COVER SYSTEM WITH GASKET SYSTEM THEREFOR	United States of America	2015-08-05	14/818599	2017-05-30	9664284
COATING OF A SYSTEM AND AN ASSOCIATED METHOD THEREOF	United States of America	2016-12-21	15/777673		
SYSTEM FOR MONITORING A PRECHAMBER OF AN ENGINE	United States of America	2015-12-31	14/985899	2018-09-18	10077730
SYSTEM FOR COOLING ENGINE INTAKE FLOW	United States of America	2016-03-31	16/081467		
SYSTEMS AND METHODS ADJUSTING FOR AFTERTREATMENT SYSTEM CONDITION	United States of America	2017-09-27	15/717914		
SYSTEMS AND METHODS ADJUSTING FOR AFTERTREATMENT SYSTEM CONDITION AND CONTROL	United States of America	2017-09-27	15/717911		
SYSTEM AND METHOD FOR DETECTING OPERATING EVENTS OF AN ENGINE VIA MIDI	United States of America	2017-08-08	15/672286		
RECIPROCATING COMPRESSOR FLOW SENSING	United States of America	2016-10-11	15/290746		
KNOCK SENSOR SYSTEMS AND METHODS FOR VALVE RECESSION CONDITIONS	United States of America	2018-01-22	15/877363		

METHODS AND SYSTEMS FOR DIAGNOSING VALVE DEFECTS IN RECIPROCATING COMPRESSORS	United States of America	2018-06-25	16/017425		
TWO-STAGE RECIPROCATING COMPRESSOR OPTIMIZATION CONTROL SYSTEM	United States of America	2017-01-17	15/397289		
THERMALLY COMPENSATED BORE GUIDE SYSTEMS AND METHODS	United States of America	2018-03-06	15/913585		
SYSTEM FOR COOLING EXHAUST VALVE OF A RECIPROCATING ENGINE	United States of America	2017-11-02	15/802375		
SYSTEM AND METHOD FOR COMPRESSOR SCHEDULING	United States of America	2017-09-18	15/707227		
SYSTEM AND METHOD FOR PISTON RING PROGNOSTIC	United States of America	2018-07-16	16/036019		
EXHAUST AFTERTREATMENT SYSTEM	United States of America	2018-04-12	15/951272		
PISTON ASSEMBLY WITH OFFSET TIGHT LAND PROFILE	United States of America	2017-12-06	15/833465		
METHOD AND SYSTEM FOR GAS COMPRESSOR CONTROL	United States of America	2018-03-01	15/909673		

EXHIBIT B

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[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
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EXHIBIT C

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