

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5167583

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST

**CONVEYING PARTY DATA**

Name	Execution Date
GARRETT TRANSPORTATION I INC.	09/27/2018

**RECEIVING PARTY DATA**

<b>Name:</b>	JPMORGAN CHASE BANK, N.A., AS ADMINISTRATIVE AGENT
<b>Street Address:</b>	CIB DMO WLO
<b>Internal Address:</b>	MAIL CODE NY1-C413, 4 CMC
<b>City:</b>	BROOKLYN
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	11245

**PROPERTY NUMBERS Total: 492**

Property Type	Number
Patent Number:	6167992
Patent Number:	6228815
Patent Number:	7179850
Patent Number:	6662708
Patent Number:	6932563
Patent Number:	6017184
Patent Number:	6623239
Patent Number:	6665604
Patent Number:	6681573
Patent Number:	6062028
Patent Number:	6205784
Patent Number:	6209390
Patent Number:	6827494
Patent Number:	6193463
Patent Number:	6269642
Patent Number:	6584963
Patent Number:	6418722
Patent Number:	6338614
Patent Number:	7056103

PATENT

<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	6920754
<b>Patent Number:</b>	6792755
<b>Patent Number:</b>	7001155
<b>Patent Number:</b>	6599087
<b>Patent Number:</b>	6419464
<b>Patent Number:</b>	6709235
<b>Patent Number:</b>	6430929
<b>Patent Number:</b>	6648594
<b>Patent Number:</b>	6694733
<b>Patent Number:</b>	6951450
<b>Patent Number:</b>	7946116
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<b>Patent Number:</b>	6871498
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<b>Patent Number:</b>	6609375
<b>Patent Number:</b>	6705084
<b>Patent Number:</b>	6729134
<b>Patent Number:</b>	6971377
<b>Patent Number:</b>	7493942
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<b>Patent Number:</b>	6928817
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<b>Patent Number:</b>	6948907

Property Type	Number
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Patent Number:	6957693
Patent Number:	6899090
Patent Number:	6997250
Patent Number:	6928818
Patent Number:	6682321
Patent Number:	6955528
Patent Number:	6904353
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Property Type	Number
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<b>Property Type</b>	<b>Number</b>
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<b>Property Type</b>	<b>Number</b>
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<b>Application Number:</b>	15211889
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<b>Property Type</b>	<b>Number</b>
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Application Number:	15456403
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Property Type	Number
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Application Number:	15889642
Application Number:	15904493
Application Number:	15909899
Application Number:	15972987

**CORRESPONDENCE DATA**

**Fax Number:** (800)494-7512

*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.*

**Phone:** 202-370-4750

**Email:** ipteam@cogencyglobal.com

**Correspondent Name:** MELONY SOT

**Address Line 1:** 1025 VERMONT AVE NW, SUITE 1130

**Address Line 2:** COGENCY GLOBAL INC.

**Address Line 4:** WASHINGTON, D.C. 20005

<b>ATTORNEY DOCKET NUMBER:</b>	F179593 PT
<b>NAME OF SUBMITTER:</b>	EMILY OHANNESSIAN
<b>SIGNATURE:</b>	/Emily Ohannessian/
<b>DATE SIGNED:</b>	10/01/2018

**Total Attachments: 26**

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PATENT SECURITY AGREEMENT dated as of September 27, 2018 (this "Agreement"), between Garrett Transportation I Inc. (the "Grantors") and JPMorgan Chase Bank, N.A. ("JPMCB"), as Administrative Agent.

Reference is made to (a) the Credit Agreement dated as of September 27, 2018 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), among the Borrowers, Holdings, the other Grantors party thereto, the Lenders and Issuing Banks from time to time party thereto and JPMCB, as Administrative Agent, and (b) the U.S. Collateral Agreement dated as of September 27, 2018 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "U.S. Collateral Agreement"), among Holdings, U.S. HoldCo, U.S. Co-Borrower, the other U.S. Subsidiary Loan Parties from time to time party thereto and JPMCB, as Administrative Agent. The parties hereto agree as follows:

SECTION 1. Terms. Each capitalized term used but not otherwise defined herein shall have the meaning specified in the Credit Agreement or the U.S. Collateral Agreement, as applicable. The rules of construction specified in Section 1.03 of the Credit Agreement also apply to this Agreement, mutatis mutandis.

SECTION 2. Grant of Security Interest. As security for the payment or performance, as the case may be, in full of the Secured Obligations, each Grantor, pursuant to the U.S. Collateral Agreement, did and hereby does grant to the Administrative Agent and its successors and assigns, for the benefit of the Secured Parties, a security interest in all of such Grantor's right, title and interest in, to and under the portion of the Article 9 Collateral constituting the Patents listed on Schedule I hereto, subject to the exclusions set forth in Section 4.01(d) of the U.S. Collateral Agreement (collectively, the "Patent Collateral").

SECTION 3. U.S. Collateral Agreement. This Agreement has been executed and delivered by the Grantor for the purpose of recording the grant of security interest herein with the United States Patent and Trademark Office. The security interest granted hereby has been granted to the Administrative Agent for the benefit of the Lenders in connection with the U.S. Collateral Agreement and is expressly subject to the terms and conditions thereof. Each Grantor hereby acknowledges and affirms that the rights and remedies of the Administrative Agent with respect to the Patent Collateral are more fully set forth in the U.S. Collateral Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the U.S. Collateral Agreement, the terms of the U.S. Collateral Agreement shall govern.

SECTION 4. Counterparts. This Agreement may be executed in counterparts (and by different parties hereto on different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. Delivery of an executed counterpart of a signature page of this Agreement by



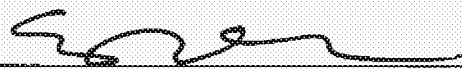
facsimile or other electronic imaging shall be effective as delivery of a manually executed counterpart of this Agreement.

SECTION 5. CHOICE OF LAW. THIS AGREEMENT AND ANY CLAIM, CONTROVERSY, DISPUTE OR CAUSE OF ACTION (WHETHER IN CONTRACT OR TORT OR OTHERWISE) BASED UPON, ARISING OUT OF OR RELATING TO THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.

[SIGNATURE PAGES FOLLOW]

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

GARRETT TRANSPORTATION I INC.,  
as Grantor

By:   
Name: Su Ping Lu  
Title: Vice President

[SIGNATURE PAGE TO PATENT SECURITY AGREEMENT]

**PATENT**  
**REEL: 047172 FRAME: 0237**

JPMORGAN CHASE BANK, N.A.,  
as Administrative Agent

By:   
Name: Gene Riego de Dios  
Title: Executive Director

[SIGNATURE PAGE TO PATENT SECURITY AGREEMENT]

**PATENT**  
**REEL: 047172 FRAME: 0238**

**SCHEDULE I**

Patents

	Patent No.	Owner	Title
1.	6167992	Garrett Transportation I Inc.	ABRASIVE COATING ON BRAKE PADS
2.	6228815	Garrett Transportation I Inc.	SOLID LUBRICANTS CONTAINING BISMUTH SULFIDE FOR USE IN FRICTION LININGS
3.	7179850	Garrett Transportation I Inc.	FRICTION MATERIALS CONTAINING TIN OXIDES
4.	6662708	Garrett Transportation I Inc.	PNEUMATIC ACTUATOR CANISTER
5.	6932563	Garrett Transportation I Inc.	APPARATUS, SYSTEM AND METHOD FOR MINIMIZING RESONANT FORCES IN A COMPRESSOR
6.	6017184	Garrett Transportation I Inc.	TURBOCHARGER INTEGRATED BEARING SYSTEM
7.	6623239	Garrett Transportation I Inc.	TURBOCHARGER NOISE DEFLECTOR
8.	6665604	Garrett Transportation I Inc.	CONTROL METHOD FOR VARIABLE GEOMETRY TURBOCHARGER AND RELATED SYSTEM
9.	6681573	Garrett Transportation I Inc.	METHODS AND SYSTEMS FOR VARIABLE GEOMETRY TURBOCHARGER CONTROL
10.	6062028	Garrett Transportation I Inc.	LOW SPEED HIGH PRESSURE RATIO TURBOCHARGER
11.	6205784	Garrett Transportation I Inc.	INTEGRALLY MOUNTED PNEUMATIC SOLENOID VALVE FOR WASTEGATE CONTROL
12.	6209390	Garrett Transportation I Inc.	TURBOCHARGER FATIGUE LIFE MONITOR
13.	6827494	Garrett Transportation I Inc.	DIVERTED FLOW THRUST BEARING
14.	6193463	Garrett Transportation I Inc.	DIE CAST COMPRESSOR HOUSING FOR CENTRIFUGAL COMPRESSORS WITH A TRUE VOLUTE SHAPE
15.	6269642	Garrett Transportation I Inc.	VARIABLE GEOMETRY TURBOCHARGER
16.	6584963	Garrett Transportation I Inc.	THROTTLE LOSS RECOVERY TURBINE AND SUPERCHARGER
17.	6418722	Garrett Transportation I Inc.	TURBOCHARGER BEARING SYSTEM
18.	6338614	Garrett Transportation I Inc.	TURBOCHARGER ANNULAR SEAL GLAND
19.	7056103	Garrett Transportation I Inc.	METHOD AND APPARATUS FOR COOLING TURBO MACHINERY COMPONENTS
20.	6920754	Garrett Transportation I Inc.	HIGH-PRESSURE RATIO TURBOCHARGER
21.	6792755	Garrett Transportation I Inc.	HIGH-PRESSURE RATIO TURBOCHARGER
22.	7001155	Garrett Transportation I Inc.	COMPRESSOR IMPELLER WITH STRESS RISER
23.	6599087	Garrett Transportation I Inc.	ACTUATOR SHAFT SEAL FOR VARIABLE NOZZLE TURBOCHARGER
24.	6419464	Garrett Transportation I Inc.	IMPROVED VANE FOR VARIABLE NOZZLE TURBOCHARGER

25.	6709235	Garrett Transportation I Inc.	TURBINE HOUSING FOR HIGH EXHAUST TEMPERATURE
26.	6430929	Garrett Transportation I Inc.	TURBOCHARGER WITH INTEGRATED EXHAUST GAS RECIRCULATION VALVE
27.	6648594	Garrett Transportation I Inc.	TURBOCHARGER
28.	6694733	Garrett Transportation I Inc.	TURBOCHARGER WITH SLIDING BLADES HAVING COMBINED DYNAMIC SURFACES AND HEAT SCREEN AND UNCOUPLED AXIAL ACTUATING DEVICE
29.	6951450	Garrett Transportation I Inc.	VARIABLE GEOMETRY TURBOCHARGER
30.	7946116	Garrett Transportation I Inc.	TURBOCHARGER COMPRISING A VARIABLE NOZZLE DEVICE
31.	6449950	Garrett Transportation I Inc.	ROTOR AND BEARING SYSTEM FOR AN ELECTRICALLY ASSISTED TURBOCHARGER
32.	6871498	Garrett Transportation I Inc.	COMPRESSOR SURGE PROTECTOR FOR ELECTRIC ASSISTED TURBOCHARGER
33.	6871499	Garrett Transportation I Inc.	OIL PRESSURE DETECTOR FOR ELECTRIC ASSISTED TURBOCHARGER
34.	6609375	Garrett Transportation I Inc.	AIR COOLING SYSTEM FOR ELECTRIC ASSISTED TURBOCHARGER
35.	6705084	Garrett Transportation I Inc.	CONTROL SYSTEM FOR ELECTRIC ASSISTED TURBOCHARGER
36.	6729134	Garrett Transportation I Inc.	VARIABLE GEOMETRY TURBOCHARGER HAVING INTERNAL BYPASS EXHAUST GAS FLOW
37.	6971377	Garrett Transportation I Inc.	EXHAUST GAS RECIRCULATION COOLER WITH BYPASS FLOW
38.	7493942	Garrett Transportation I Inc.	ASYMMETRICAL HEAT EXCHANGER CORE FOR INCREASING INTERCOOLANT VELOCITY
39.	7124812	Garrett Transportation I Inc.	HEAT EXCHANGER
40.	7073573	Garrett Transportation I Inc.	DECREASED HOT SIDE FIN DENSITY HEAT EXCHANGER
41.	6698717	Garrett Transportation I Inc.	MODIFIED BUTTERFLY VALVE AND ASSEMBLY
42.	6647724	Garrett Transportation I Inc.	ELECTRIC BOOST AND/OR GENERATOR
43.	6755186	Garrett Transportation I Inc.	EGR SYSTEM FLEXIBLE GAS CONNECTION JOINT
44.	6637205	Garrett Transportation I Inc.	ELECTRIC ASSIST AND VARIABLE GEOMETRY TURBOCHARGER
45.	7340895	Garrett Transportation I Inc.	TURBOCHARGER ACTUATOR
46.	6748741	Garrett Transportation I Inc.	A CHARGE AIR CONDENSATION COLLECTION SYSTEM FOR ENGINES WITH EXHAUST GAS RECIRCULATION
47.	6767185	Garrett Transportation I Inc.	TURBINE EFFICIENCY TAILORING
48.	7066715	Garrett Transportation I Inc.	TURBINE EFFICIENCY TAILORING

49.	6668553	Garrett Transportation I Inc.	EJECTOR-BASED COOLING SYSTEM FOR TURBOCHARGERS
50.	6634419	Garrett Transportation I Inc.	MULTI-PASS EXHAUST GAS RECIRCULATION COOLER
51.	6928730	Garrett Transportation I Inc.	MULTI-PASS EXHAUST GAS RECIRCULATION COOLER
52.	6669372	Garrett Transportation I Inc.	TURBOCHARGER THRUST BEARING
53.	6925802	Garrett Transportation I Inc.	SYSTEM TO IMPROVE AFTER-TREATMENT REGENERATION
54.	7458764	Garrett Transportation I Inc.	NOZZLE DEVICE FOR A TURBOCHARGER AND ASSOCIATED CONTROL METHOD
55.	6928817	Garrett Transportation I Inc.	CONTROL SYSTEM FOR IMPROVED TRANSIENT RESPONSE IN A VARIABLE-GEOMETRY TURBOCHARGER
56.	8608433	Garrett Transportation I Inc.	TURBINE HAVING VARIABLE THROAT
57.	6948907	Garrett Transportation I Inc.	VANE AND/OR BLADE FOR NOISE CONTROL
58.	7476082	Garrett Transportation I Inc.	VANE AND/OR BLADE FOR NOISE CONTROL
59.	6957693	Garrett Transportation I Inc.	HEAT EXCHANGER THERMAL INDICATOR
60.	6899090	Garrett Transportation I Inc.	DUAL PATH EGR SYSTEM AND METHODS
61.	6997250	Garrett Transportation I Inc.	HEAT EXCHANGER WITH FLOW DIRECTOR
62.	6928818	Garrett Transportation I Inc.	ACTUATION ASSEMBLY FOR VARIABLE GEOMETRY TURBOCHARGERS
63.	6682321	Garrett Transportation I Inc.	THERMALLY DECOUPLED FLANGE FOR MOUNTING TO A TURBINE HOUSING
64.	6955528	Garrett Transportation I Inc.	METHOD FOR MANUFACTURING A TURBOCHARGER ASSEMBLY HAVING A THERMALLY DECOUPLED FLANGE
65.	6904353	Garrett Transportation I Inc.	METHOD AND SYSTEM FOR SLIDING MODE CONTROL OF A TURBOCHARGER
66.	7281378	Garrett Transportation I Inc.	SURGE CONTROL SYSTEM FOR A COMPRESSOR
67.	7013879	Garrett Transportation I Inc.	DUAL AND HYBRID EGR SYSTEMS FOR USE WITH TURBOCHARGED ENGINES
68.	7165540	Garrett Transportation I Inc.	DUAL AND HYBRID EGR SYSTEMS FOR USE WITH TURBOCHARGED ENGINES
69.	6994000	Garrett Transportation I Inc.	FIXTURE AND LOCATOR DEVICE FOR SUPPORTING A ROTATABLE MEMBER
70.	8287233	Garrett Transportation I Inc.	CENTRIFUGAL COMPRESSOR WITH A RECIRCULATION VENTURI IN PORTED SHROUD
71.	7775759	Garrett Transportation I Inc.	CENTRIFUGAL COMPRESSOR WITH SURGE CONTROL, AND ASSOCIATED METHOD
72.	6834501	Garrett Transportation I Inc.	TURBOCHARGER COMPRESSOR WITH NON-AXISYMMETRIC DESWIRL VANES

73.	7458214	Garrett Transportation I Inc.	ELECTRIC MOTOR CARTRIDGE FOR ELECTRICALLY ASSISTED TURBOCHARGER
74.	8197194	Garrett Transportation I Inc.	TURBINE OF A TURBOCHARGER
75.	7040867	Garrett Transportation I Inc.	COMPRESSOR WHEEL JOINT
76.	7545115	Garrett Transportation I Inc.	MOTOR CONTROL AND DRIVER FOR ELECTRIC BOOSTING APPLICATION
77.	7461507	Garrett Transportation I Inc.	HIGH RESPONSE, COMPACT TURBOCHARGER
78.	6948314	Garrett Transportation I Inc.	HIGH RESPONSE, COMPACT TURBOCHARGER
79.	7950227	Garrett Transportation I Inc.	HIGH RESPONSE COMPACT TURBOCHARGER
80.	7305826	Garrett Transportation I Inc.	Axial Loading Management in Turbomachinery
81.	7000392	Garrett Transportation I Inc.	VANE CONTROL
82.	6895751	Garrett Transportation I Inc.	VANE CONTROL
83.	7426829	Garrett Transportation I Inc.	VANE CONTROL
84.	8157516	Garrett Transportation I Inc.	COMPRESSOR WHEEL HOUSING
85.	6935849	Garrett Transportation I Inc.	GROOVED SHAFT MEMBER AND ASSOCIATED TURBOCHARGER AND METHOD
86.	7214037	Garrett Transportation I Inc.	Retention of Ball Bearing Cartridge for Turbomachinery
87.	7461979	Garrett Transportation I Inc.	Retention of Ball Bearing Cartridge for Turbomachinery
88.	7987599	Garrett Transportation I Inc.	Retention of Ball Bearing Cartridge for Turbomachinery
89.	8454242	Garrett Transportation I Inc.	RETENTION OF BALL BEARING CARTRIDGE FOR TURBOMACHINERY
90.	7581394	Garrett Transportation I Inc.	VARIABLE NOZZLE DEVICE FOR A TURBOCHARGER
91.	7204241	Garrett Transportation I Inc.	COMPRESSOR STAGE SEPARATION SYSTEM
92.	7108488	Garrett Transportation I Inc.	TURBOCHARGER WITH HYDRODYNAMIC FOIL BEARINGS
93.	8123501	Garrett Transportation I Inc.	TURBOCHARGER HOUSING, TURBOCHARGER AND A MULTI-TURBOCHARGER BOOSTING SYSTEM
94.	7059129	Garrett Transportation I Inc.	VARIABLE GEOMETRY TURBOCHARGER
95.	7066719	Garrett Transportation I Inc.	Bore and Shaft Assembly
96.	7563079	Garrett Transportation I Inc.	BORE AND SHAFT ASSEMBLY
97.	7484932	Garrett Transportation I Inc.	Bore & Shaft Assembly
98.	7147433	Garrett Transportation I Inc.	PROFILED BLADES FOR TURBOCHARGED TURBINES, COMPRESSORS AND THE LIKE



99.	7040874	Garrett Transportation I Inc.	Integrated Turbocharger Lubrication System
100.	7530228	Garrett Transportation I Inc.	Integrated Turbocharger Lubricant Filter System
101.	7255530	Garrett Transportation I Inc.	VANE AND THROAT SHAPING
102.	7055574	Garrett Transportation I Inc.	Method of Producing Metal Article Having Internal Passage Coated with A Ceramic Coating
103.	8360730	Garrett Transportation I Inc.	TURBINE WHEEL WITH BACKSWEEP INDUCER
104.	7475539	Garrett Transportation I Inc.	INCLINED RIB PORTED SHROUD COMPRESSOR HOUSING
105.	7550056	Garrett Transportation I Inc.	SYSTEM AND METHOD FOR MANUFACTURING A BRAKE SHOE
106.	7104693	Garrett Transportation I Inc.	MULTI-THICKNESS FILM LAYER BEARING CATRIDGE AND HOUSING
107.	7419304	Garrett Transportation I Inc.	MULTI-THICKNESS FILM LAYER BEARING CATRIDGE AND HOUSING
108.	8021104	Garrett Transportation I Inc.	COMPRESSOR APPARATUS WITH RECIRCULATION AND METHOD THEREFORE
109.	8100639	Garrett Transportation I Inc.	ACTUATING ROD END CONNECTOR
110.	7160082	Garrett Transportation I Inc.	TURBOCHARGER WITH BALANCING FEATURES
111.	7878758	Garrett Transportation I Inc.	TURBOCHARGER WITH BALANCING FEATURES
112.	7198037	Garrett Transportation I Inc.	BYPASS FOR EXHAUST GAS COOLER
113.	7469177	Garrett Transportation I Inc.	DISTRIBUTED CONTROL ARCHITECTURE FOR POWERTRAINS
114.	7357125	Garrett Transportation I Inc.	EXHAUST GAS RECIRCULATION SYSTEM
115.	7165399	Garrett Transportation I Inc.	METHOD AND SYSTEM FOR USING A MEASURE OF FUELING RATE IN THE AIR SIDE CONTROL OF AN ENGINE
116.	7591135	Garrett Transportation I Inc.	METHOD AND SYSTEM FOR USING A MEASURE OF FUELING RATE IN THE AIR SIDE CONTROL OF AN ENGINE
117.	7467614	Garrett Transportation I Inc.	PEDAL POSITION AND/OR PEDAL CHANGE RATE FOR USE IN CONTROL OF AN ENGINE
118.	RE44452	Garrett Transportation I Inc.	PEDAL POSITION AND/OR PEDAL CHANGE RATE FOR USE IN CONTROL OF AN ENGINE
119.	7237381	Garrett Transportation I Inc.	CONTROL OF EXHAUST TEMPERATUREFOR AFTER TREATMENT USING E-TURBO SYSTEM
120.	7328577	Garrett Transportation I Inc.	MULTIVARIABLE CONTROL FOR AN ENGINE
121.	7389773	Garrett Transportation I Inc.	EMISSIONS SENSORS FOR FUEL CONTROL IN ENGINES
122.	7878178	Garrett Transportation I Inc.	EMISSIONS SENSORS FOR FUEL CONTROL IN ENGINES

123.	8109255	Garrett Transportation I Inc.	ENGINE CONTROLLER
124.	8360040	Garrett Transportation I Inc.	ENGINE CONTROLLER
125.	7275374	Garrett Transportation I Inc.	COORDINATED MULTIVARIABLE CONTROL OF FUEL AND AIR IN A DIESEL ENGINE
126.	7415389	Garrett Transportation I Inc.	CALIBRATION OF ENGINE CONTROL SYSTEMS
127.	7155334	Garrett Transportation I Inc.	USE OF SENSORS IN A STATE OBSERVER FOR A DIESEL ENGINE
128.	7447587	Garrett Transportation I Inc.	CYLINDER TO CYLINDER VARIATION CONTROL
129.	7568883	Garrett Transportation I Inc.	TURBOCHARGER HAVING TWO-STAGE COMPRESSOR WITH BORELESS FIRST-STAGE IMPELLER
130.	7165537	Garrett Transportation I Inc.	CHARGE AIR COOLER
131.	7014418	Garrett Transportation I Inc.	MULTI-STAGE COMPRESSOR AND HOUSING THEREFOR
132.	7478532	Garrett Transportation I Inc.	TURBOCHARGER CONTAINMENT SHIELD
133.	8037684	Garrett Transportation I Inc.	VARIABLE FLOW TURBINE WHEEL
134.	8029235	Garrett Transportation I Inc.	SHAPE DETAIL OF PISTON TO AVOID JAMMING WITH DISTORED BORE
135.	8109715	Garrett Transportation I Inc.	VARIABLE NOZZLE TURBOCHARGER
136.	8240984	Garrett Transportation I Inc.	VARIABLE GEOMETRY COMPRESSOR MODULE
137.	7407364	Garrett Transportation I Inc.	TURBOCHARGER COMPRESSOR HAVING PORTED SECOND-STAGE SHROUD, AND ASSOCIATED METHOD
138.	8333556	Garrett Transportation I Inc.	TURBOCHARGER AND VARIABLE-NOZZLE CARTRIDGE THEREFOR
139.	7156282	Garrett Transportation I Inc.	TITANIUM-ALUMINIDE TURBINE WHEEL AND SHAFT ASSEMBLY, AND METHOD FOR MAKING SAME
140.	8112994	Garrett Transportation I Inc.	METHOD OF CONTROLLING A TURBOCHARGER HAVING A VARIABLE-GEOMETRY MECHANISM AND A WASTE GATE
141.	7987868	Garrett Transportation I Inc.	DECOUPLED HOUSING SEAT
142.	7820028	Garrett Transportation I Inc.	OXIDES OF NITROGEN GAS SENSORS AND METHODS
143.	8177491	Garrett Transportation I Inc.	AVGC CARTRIDGE
144.	7766550	Garrett Transportation I Inc.	CENTERING MECHANISMS FOR TURBOCHARGER BEARINGS
145.	8226296	Garrett Transportation I Inc.	CENTERING MECHANISMS FOR TURBOCHARGER BEARINGS
146.	8449190	Garrett Transportation I Inc.	CENTERING MECHANISMS FOR TURBOCHARGER BEARINGS

147.	7568338	Garrett Transportation I Inc.	MULTI-PIECE COMPRESSOR HOUSING
148.	8511083	Garrett Transportation I Inc.	PORTED SHROUD WITH FILTERED EXTERNAL VENTILATION
149.	7958730	Garrett Transportation I Inc.	CONTROL OF DUAL STAGE TURBOCHARGING
150.	7458724	Garrett Transportation I Inc.	Pressure Biased Lubricant Valve
151.	7305827	Garrett Transportation I Inc.	INLET DUCT FOR REARWARD-FACING COMPRESSOR WHEEL, AND TURBOCHARGER INCORPORATING SAME
152.	7918215	Garrett Transportation I Inc.	COMPRESSOR STAGE ASSEMBLY LOCK
153.	7559199	Garrett Transportation I Inc.	VARIABLE-NOZZLE CARTRIDGE FOR A TURBOCHARGER
154.	8033109	Garrett Transportation I Inc.	VARIABLE-NOZZLE ASSEMBLY FOR A TURBOCHARGER
155.	8464528	Garrett Transportation I Inc.	VARIABLE-NOZZLE ASSEMBLY FOR A TURBOCHARGER
156.	7647772	Garrett Transportation I Inc.	SURFACE TREATMENT FOR VARIABLE GEOMETRY TURBINE
157.	7360362	Garrett Transportation I Inc.	TWO-STAGE TURBOCHARGER SYSTEM WITH INTEGRATED EXHAUST MANIFOLD AND BYPASS ASSEMBLY
158.	7478991	Garrett Transportation I Inc.	VARIABLE NOZZLE DEVICE
159.	7428839	Garrett Transportation I Inc.	METHOD FOR CALIBRATING A TURBOCHARGER
160.	7694553	Garrett Transportation I Inc.	METHOD FOR CALIBRATING A TURBOCHARGER
161.	7553127	Garrett Transportation I Inc.	VARIABLE NOZZLE DEVICE
162.	7415878	Garrett Transportation I Inc.	BALL BEARING TURBOCHARGER BALANCER
163.	7568340	Garrett Transportation I Inc.	EXHAUST GAS RECIRCULATION MIXER
164.	7793499	Garrett Transportation I Inc.	Bearing Spacer and Housing
165.	8393382	Garrett Transportation I Inc.	HEAT EXCHANGER WITH TELESCOPING EXPANSION JOINT
166.	9067289	Garrett Transportation I Inc.	HEAT EXCHANGER WITH TELESCOPING EXPANSION JOINT
167.	7828517	Garrett Transportation I Inc.	VARIABLE-GEOMETRY TURBOCHARGER WITH ASYMMETRIC DIVIDED VOLUTE FOR ENGINE EXHAUST GAS PULSE OPTIMIZATION
168.	7624575	Garrett Transportation I Inc.	EGR MIXER AND PORTED SHROUD COMPRESSOR HOUSING
169.	8365406	Garrett Transportation I Inc.	BEARING AND SHAFT WHEEL ASSEMBLY BALANCING TECHNIQUES AND EQUIPMENT FOR TURBOCHARGERS

170.	7918023	Garrett Transportation I Inc.	METHOD FOR MANUFACTURING A VARIABLE-VANE MECHANISM FOR A TURBOCHARGER
171.	8118570	Garrett Transportation I Inc.	ANISOTROPIC BEARING SUPPORTS FOR TURBOCHARGERS
172.	8734130	Garrett Transportation I Inc.	ANISOTROPIC BEARING SUPPORTS FOR TURBOCHARGERS
173.	9382812	Garrett Transportation I Inc.	ANISOTROPIC BEARING SUPPORTS FOR TURBOCHARGERS
174.	7762067	Garrett Transportation I Inc.	TURBOCHARGER WITH SLIDING PISTON ASSEMBLY
175.	8272832	Garrett Transportation I Inc.	CENTRIFUGAL COMPRESSOR WITH SURGE CONTROL, AND ASSOCIATED METHOD
176.	7810313	Garrett Transportation I Inc.	METHOD AND SYSTEM FOR THE SIMULTANEOUS MEASUREMENT OF A PLURALITY OF PROPERTIES ASSOCIATED WITH EXHAUST GAS MIXTURE
177.	8123470	Garrett Transportation I Inc.	Turbine Assembly with Semi-Divided Nozzle and Half-Collar Piston
178.	8523511	Garrett Transportation I Inc.	ADAPTIVE VARIABLE GEOMETRY TURBOCHARGER STRATEGY
179.	8235098	Garrett Transportation I Inc.	HEAT EXCHANGER FLAT TUBE WITH OBLIQUE ELONGATE DIMPLES
180.	7670107	Garrett Transportation I Inc.	VARIABLE-VANE ASSEMBLY HAVING FIXED AXIAL-RADIAL GUIDES AND FIXED RADIAL-ONLY GUIDES FOR UNISON RING
181.	8118544	Garrett Transportation I Inc.	BEARING AND RETENTION MECHANISMS
182.	8092162	Garrett Transportation I Inc.	TURBOCHARGER ASSEMBLY HAVING HEAT SHIELD-CENTERING ARRANGEMENTS
183.	8353666	Garrett Transportation I Inc.	TURBOCHARGER ASSEMBLY HAVING HEAT SHIELD-CENTERING ARRANGEMENTS
184.	7774937	Garrett Transportation I Inc.	HEAT EXCHANGER WITH DIVIDED COOLANT CHAMBER
185.	7613561	Garrett Transportation I Inc.	MEASUREMENT OF NO AND NO2 FOR CONTROL OF SELECTIVE CATALYTIC REDUCTION
186.	7802428	Garrett Transportation I Inc.	TURBOCHARGER SYSTEM SUBASSEMBLIES AND ASSOCIATED ASSEMBLY METHODS
187.	8545173	Garrett Transportation I Inc.	PROCESS FOR CALIBRATING A VARIABLE-NOZZLE ASSEMBLY OF A TURBOCHARGER AND A VARIABLE-NOZZLE ASSEMBLY FACILITATING SUCH PROCESS
188.	8961128	Garrett Transportation I Inc.	BEARING SPACER AND HOUSING
189.	8137747	Garrett Transportation I Inc.	COMPONENTS, TURBOCHARGERS, AND METHODS OF FORMING THE COMPONENTS
190.	8703661	Garrett Transportation I Inc.	COMPONENTS, TURBOCHARGERS, AND METHODS OF FORMING THE COMPONENTS

191.	8491257	Garrett Transportation I Inc.	NOZZLE VANE AND CRANK ARM ASSEMBLY AND METHOD
192.	8480358	Garrett Transportation I Inc.	VARIABLE NOZZLE FOR A TURBOCHARGER, HAVING NOZZLE RING LOCATED BY RADIAL MEMBERS
193.	8414253	Garrett Transportation I Inc.	TURBOCHARGER VANE
194.	8122716	Garrett Transportation I Inc.	VNT FLOW CALIBRATION ADJUSTMENT
195.	8070425	Garrett Transportation I Inc.	TURBOCHARGER WITH SLIDING PISTON, AND HAVING VANES AND LEAKAGE DAMS
196.	8000878	Garrett Transportation I Inc.	PARALLEL SEQUENTIAL TURBOCHARGER ARCHITECTURE USING ENGINE CYLINDER VARIABLE VALVE LIFT SYSTEM
197.	8160803	Garrett Transportation I Inc.	PARALLEL SEQUENTIAL TURBOCHARGER ARCHITECTURE USING ENGINE CYLINDER VARIABLE VALVE LIFT SYSTEM
198.	8442743	Garrett Transportation I Inc.	PARALLEL SEQUENTIAL TURBOCHARGER ARCHITECTURE USING ENGINE CYLINDER VARIABLE VALVE LIFT SYSTEM
199.	8060290	Garrett Transportation I Inc.	CONFIGURABLE AUTOMOTIVE CONTROLLER
200.	7996140	Garrett Transportation I Inc.	CONFIGURABLE AUTOMOTIVE CONTROLLER
201.	8265854	Garrett Transportation I Inc.	CONFIGURABLE AUTOMOTIVE CONTROLLER
202.	8078291	Garrett Transportation I Inc.	METHODS AND SYSTEMS FOR THE DESIGN AND IMPLEMENTATION OF OPTIMAL MULTIVARIABLE MODEL PREDICTIVE CONTROLLERS FOR FAST-SAMPLING CONSTRAINED DYNAMIC SYSTEMS
203.	8452423	Garrett Transportation I Inc.	METHODS AND SYSTEMS FOR THE DESIGN AND IMPLEMENTATION OF OPTIMAL MULTIVARIABLE MODEL PREDICTIVE CONTROLLERS FOR FAST-SAMPLING CONSTRAINED DYNAMIC SYSTEMS
204.	7892659	Garrett Transportation I Inc.	COATING PRECURSOR MATERIALS, TURBOMACHINERY COMPONENTS, AND METHODS OF FORMING THE TURBOMACHINERY COMPONENTS
205.	8056336	Garrett Transportation I Inc.	TURBOCHARGER WITH VARIABLE NOZZLE HAVING VANE SEALING SURFACES
206.	7689376	Garrett Transportation I Inc.	METHOD OF CALIBRATING AN ACTUATOR SYSTEM FOR A VARIABLE NOZZLE OF A TURBOCHARGER
207.	8496452	Garrett Transportation I Inc.	BEARING SPACER AND HOUSING
208.	9039391	Garrett Transportation I Inc.	BEARING SPACER AND HOUSING
209.	8061974	Garrett Transportation I Inc.	COMPRESSOR WITH VARIABLE-GEOMETRY PORTED SHROUD

210.	8113770	Garrett Transportation I Inc.	TURBINE ASSEMBLY FOR AN EXHAUST GAS-DRIVEN TURBOCHARGER HAVING A VARIABLE NOZZLE
211.	8181462	Garrett Transportation I Inc.	TURBOCHARGER WITH TWO-STAGE COMPRESSOR, INCLUDING A TWIN-WHEEL PARALLEL-FLOW FIRST STAGE
212.	8079217	Garrett Transportation I Inc.	TURBOCHARGER WITH VARIABLE TURBINE NOZZLE ACTUATED BY HYDRAULIC AND MECHANICAL SPRING FORCES
213.	8534989	Garrett Transportation I Inc.	MULTI-PIECE TURBOCHARGER BEARING
214.	9097120	Garrett Transportation I Inc.	TURBINE HOUSING ASSEMBLY
215.	9021802	Garrett Transportation I Inc.	TURBINE HOUSING ASSEMBLY WITH WASTEGATE
216.	9091208	Garrett Transportation I Inc.	TURBOCHARGER BEARING HOUSING ASSEMBLY
217.	8166755	Garrett Transportation I Inc.	TURBOCHARGER SYSTEM WITH TURBINE BYPASS VALVE ACTUATED BY MULTIPLE-RATE FLUID PRESSURE ACTUATOR
218.	8158205	Garrett Transportation I Inc.	METHODS OF FORMING SOLID LUBRICANT COATINGS ON SUBSTRATES
219.	8424304	Garrett Transportation I Inc.	TURBINE ASSEMBLY FOR A TURBOCHARGER, HAVING TWO ASYMMETRIC VOLUTES THAT ARE SEQUENTIALLY ACTIVATED, AND ASSOCIATED METHOD
220.	8615996	Garrett Transportation I Inc.	TURBINE ASSEMBLY FOR A TURBOCHARGER, HAVING TWO ASYMMETRIC VOLUTES THAT ARE SEQUENTIALLY ACTIVATED, AND ASSOCIATED METHOD
221.	8352152	Garrett Transportation I Inc.	SYSTEM, METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR PROVIDING IMPROVED ENGINE CONTROL
222.	8145329	Garrett Transportation I Inc.	METHOD AND SYSTEM FOR COMBINING FEEDBACK AND FEEDFORWARD IN MODEL PREDICTIVE CONTROL
223.	8915704	Garrett Transportation I Inc.	TURBOCHARGER VARIABLE-NOZZLE ASSEMBLY WITH VANE SEALING RING
224.	9017017	Garrett Transportation I Inc.	VARIABLE-VANE ASSEMBLY HAVING FIXED GUIDE PINS FOR UNISON RING
225.	9140185	Garrett Transportation I Inc.	LOCATING MECHANISM FOR TURBOCHARGER BEARING
226.	8453448	Garrett Transportation I Inc.	AXIAL TURBINE
227.	8769950	Garrett Transportation I Inc.	AXIAL TURBINE
228.	8075191	Garrett Transportation I Inc.	HELICAL INNER DIAMETER GROOVE JOURNAL BEARING

229.	8375587	Garrett Transportation I Inc.	RETENTION OF BALL BEARING CARTRIDGE FOR TURBOMACHINERY
230.	8480357	Garrett Transportation I Inc.	VARIABLE GEOMETRY TURBOCHARGER WITH GUIDE PINS
231.	8834104	Garrett Transportation I Inc.	VANES FOR DIRECTING EXHAUST TO A TURBINE WHEEL
232.	8372335	Garrett Transportation I Inc.	AUSTENITIC DUCTILE CAST IRON
233.	9988907	Garrett Transportation I Inc.	BLADE FEATURES FOR TURBOCHARGER WHEEL
234.	9738533	Garrett Transportation I Inc.	FOULING RESITANT SYSTEM
235.	8172508	Garrett Transportation I Inc.	MULTIPLE AIRFOIL VANES
236.	9115644	Garrett Transportation I Inc.	TURBOCHARGER SYSTEM FOR AIR-THROTTLED ENGINES
237.	8820072	Garrett Transportation I Inc.	COMPRESSOR DIFFUSER PLATE
238.	8790066	Garrett Transportation I Inc.	MULTI-LOBE SEMI-FLOATING JOURNAL BEARING
239.	8473079	Garrett Transportation I Inc.	FAST ALGORITHM FOR MODEL PREDICTIVE CONTROL
240.	8353664	Garrett Transportation I Inc.	TURBOCHARGER WITH ANNULAR ROTARY BYPASS VALVE FOR THE TURBINE
241.	8678755	Garrett Transportation I Inc.	TURBOCHARGER WITH ANNULAR ROTARY BYPASS VALVE FOR THE TURBINE
242.	8684675	Garrett Transportation I Inc.	TURBOCHARGER WITH ANNULAR ROTARY BYPASS VALVE FOR THE TURBINE
243.	8641363	Garrett Transportation I Inc.	TURBOCHARGER WITH INTEGRATED ACTUATOR
244.	8434305	Garrett Transportation I Inc.	COMPRESSED-AIR-ASSISTED TURBOCHARGER SYSTEM FOR INTERNAL COMBUSTION ENGINE
245.	8690524	Garrett Transportation I Inc.	LOW-NOISE PORTED-SHROUD COMPRESSOR FOR A TURBOCHARGER
246.	8668443	Garrett Transportation I Inc.	VARIABLE-VANE ASSEMBLY HAVING UNISON RING GUIDED RADially BY ROLLERS AND FIXED MEMBERS, AND RESTRAINED AXIALLY BY ONE OR MORE FIXED AXIAL STOPS
247.	8453445	Garrett Transportation I Inc.	AXIAL TURBINE WITH PARALLEL FLOW COMPRESSOR
248.	8446029	Garrett Transportation I Inc.	TURBOMACHINERY DEVICE FOR BOTH COMPRESSION AND EXPANSION
249.	8820709	Garrett Transportation I Inc.	WASTEGATES AND WASTEGATE COMPONENTS
250.	9222406	Garrett Transportation I Inc.	WASTEGATES AND WASTEGATE COMPONENTS
251.	8544262	Garrett Transportation I Inc.	FLOW-CONTROL ASSEMBLY WITH A ROTATING FLUID EXPANDER

252.	9760073	Garrett Transportation I Inc.	TECHNIQUE AND TOOL FOR EFFICIENT TESTING OF CONTROLLERS IN DEVELOPMENT (H-ACT PROJECT)
253.	8468826	Garrett Transportation I Inc.	AXIAL TURBINE WHEEL
254.	8353161	Garrett Transportation I Inc.	HIGH DIFFUSION TURBINE WHEEL WITH HUB BULB
255.	8573929	Garrett Transportation I Inc.	TURBOCHARGER WITH TURBINE NOZZLE VANES AND AN ANNULAR ROTARY BYPASS VALVE
256.	9057280	Garrett Transportation I Inc.	CONTACTING VANES
257.	8667794	Garrett Transportation I Inc.	VALVE SEAT AND GASKET FOR EXHAUST BYPASS VALVE
258.	8924331	Garrett Transportation I Inc.	SYSTEM AND METHOD FOR SOLVING QUADRATIC PROGRAMMING PROBLEMS WITH BOUND CONSTRAINTS UTILIZING A SEMI-EXPLICIT QUADRATIC PROGRAMMING SOLVER
259.	9429033	Garrett Transportation I Inc.	DRIVE ARRANGEMENT FOR A UNISON RING OF A VARIABLE-VANE ASSEMBLY
260.	8764384	Garrett Transportation I Inc.	JOINT FOR HOUSING ALIGNMENT
261.	9702266	Garrett Transportation I Inc.	TURBOCHARGER TURBINE HOUSING
262.	8966894	Garrett Transportation I Inc.	TURBOCHARGER CARTRIDGE AND ENGINE CYLINDER HEAD ASSEMBLY
263.	9739282	Garrett Transportation I Inc.	ROTARY VALVE UNIT FOR TURBOCHARGER
264.	8534994	Garrett Transportation I Inc.	TURBOCHARGER WITH DIVIDED TURBINE HOUSING AND ANNULAR ROTARY BYPASS VALVE FOR THE TURBINE
265.	8966895	Garrett Transportation I Inc.	TURBOCHARGER CARTRIDGE, BYPASS, AND ENGINE CYLINDER HEAD ASSEMBLY
266.	8459022	Garrett Transportation I Inc.	WASTEGATE PLUG
267.	8764376	Garrett Transportation I Inc.	DIFFUSER DIVIDER
268.	8763393	Garrett Transportation I Inc.	SEALING ARRANGEMENT BETWEEN A VARIABLE-NOZZLE ASSEMBLY AND A TURBINE HOUSING OF A TURBOCHARGER
269.	9091200	Garrett Transportation I Inc.	TURBOCHARGER AND ENGINE CYLINDER HEAD ASSEMBLY
270.	9194282	Garrett Transportation I Inc.	TURBOCHARGER AND ENGINE CYLINDER HEAD ASSEMBLY
271.	9677493	Garrett Transportation I Inc.	COORDINATED ENGINE AND EMISSIONS CONTROL SYSTEM
272.	9051848	Garrett Transportation I Inc.	TURBOCHARGER HOUSING AND BEARING LOCATING PIN
273.	8985943	Garrett Transportation I Inc.	TURBOCHARGER VARIABLE-NOZZLE ASSEMBLY WITH VANE SEALING ARRANGEMENT



274.	9188019	Garrett Transportation I Inc.	TURBOCHARGER AND VARIABLE-NOZZLE ASSEMBLY THEREFOR
275.	8911202	Garrett Transportation I Inc.	TURBOCHARGER ROTATING ASSEMBLY
276.	9879689	Garrett Transportation I Inc.	TURBOCHARGER ROTATING ASSEMBLY
277.	9011086	Garrett Transportation I Inc.	TREATED VALVE SEAT
278.	8967955	Garrett Transportation I Inc.	TURBOCHARGER WITH VARIABLE NOZZLE HAVING LABYRINTH SEAL FOR VANES
279.	8967956	Garrett Transportation I Inc.	TURBOCHARGER VARIABLE-NOZZLE ASSEMBLY WITH VANE SEALING ARRANGEMENT
280.	9200518	Garrett Transportation I Inc.	AXIAL TURBINE WHEEL WITH CURVED LEADING EDGE
281.	8801379	Garrett Transportation I Inc.	WHEEL AND REPLACEABLE NOSE PIECE
282.	9988909	Garrett Transportation I Inc.	HUB FEATURES FOR TURBOCHARGER WHEEL
283.	9028745	Garrett Transportation I Inc.	LOW NICKEL AUSTENITIC STAINLESS STEEL
284.	9200639	Garrett Transportation I Inc.	COMPRESSOR HOUSING ASSEMBLY
285.	8858173	Garrett Transportation I Inc.	BEARING ASSEMBLY WITH DAMPING FEATURES
286.	9567962	Garrett Transportation I Inc.	FLOW-CONTROL ASSEMBLY COMPRISING A TURBINE-GENERATOR CARTRIDGE
287.	9650934	Garrett Transportation I Inc.	AN ENGINE AND AFTERTREATMENT OPTIMIZATION SYSTEM
288.	9011089	Garrett Transportation I Inc.	EXPANSION SEAL
289.	9702299	Garrett Transportation I Inc.	TURBINE ASSEMBLY
290.	9206735	Garrett Transportation I Inc.	ACTUATOR AND VALVE LINKAGE
291.	8700546	Garrett Transportation I Inc.	MODEL BASED CALIBRATION OF INFERENTIAL SENSING
292.	9777737	Garrett Transportation I Inc.	ADJUSTABLE COMPRESSOR TRIM
293.	8850813	Garrett Transportation I Inc.	BEARING HOUSING SHROUD
294.	9810231	Garrett Transportation I Inc.	TURBOCHARGER WITH JOURNAL BEARING
295.	9850911	Garrett Transportation I Inc.	TURBOCHARGER WITH LUBRICANT DEFLECTOR
296.	8955318	Garrett Transportation I Inc.	TURBOCHARGER CARTRIDGE AND ENGINE CYLINDER HEAD ASSEMBLY
297.	9146545	Garrett Transportation I Inc.	A MULTIVARIABLE CONTROL SYSTEM FOR SETPOINT DESIGN
298.	9429162	Garrett Transportation I Inc.	AXIAL TURBINE WITH SECTOR-DIVIDED TURBINE HOUSING
299.	9631625	Garrett Transportation I Inc.	AXIAL TURBINE WITH STATORLESS INLET FORMED BY MERIDIONALLY DIVIDED TURBINE HOUSING AND HEAT SHROUD
300.	9163556	Garrett Transportation I Inc.	TURBINE WASTEGATE

301.	9322327	Garrett Transportation I Inc.	TURBOCHARGER WITH BYPASS VALVE PROVIDING COMPLETE BYPASS OF THE TURBINE FOR IMPROVED CATALYST LIGHT-OFF
302.	9488070	Garrett Transportation I Inc.	TURBINE END INTAKE STRUCTURE FOR TURBOCHARGER, AND TURBOCHARGER COMPRISING THE SAME
303.	8904785	Garrett Transportation I Inc.	TURBINE WASTEGATE
304.	9032727	Garrett Transportation I Inc.	SUCTION SEALING FOR TURBOCHARGER
305.	9726185	Garrett Transportation I Inc.	CENTRIFUGAL COMPRESSOR WITH CASING TREATMENT FOR SURGE CONTROL
306.	9121304	Garrett Transportation I Inc.	OUTER RACE LOCATING WASHER
307.	8979508	Garrett Transportation I Inc.	TURBOCHARGER AND VARIABLE-NOZZLE CARTRIDGE THEREFOR
308.	10006290	Garrett Transportation I Inc.	FUNCTIONALLY ASYMMETRIC TWO-SIDED TURBOCHARGER WHEEL AND DIFFUSER
309.	9353637	Garrett Transportation I Inc.	TURBINE EXHAUST HOUSING
310.	9352391	Garrett Transportation I Inc.	PROCESS FOR CASTING A TURBINE WHEEL
311.	9874139	Garrett Transportation I Inc.	WASTEGATE
312.	9926941	Garrett Transportation I Inc.	TURBOCHARGER CENTER HOUSING
313.	9010109	Garrett Transportation I Inc.	TURBINE WASTEGATE
314.	8984880	Garrett Transportation I Inc.	TURBINE WASTEGATE
315.	9482240	Garrett Transportation I Inc.	COMPRESSOR HOUSING ASSEMBLY FOR A TURBOCHARGER
316.	9593690	Garrett Transportation I Inc.	TURBOCHARGER WITH TURBINE NOZZLE VANES AND AN ANNULAR ROTARY BYPASS VALVE
317.	10047607	Garrett Transportation I Inc.	WELDED SHAFT AND TURBINE WHEEL ASSEMBLY
318.	9115761	Garrett Transportation I Inc.	BALL BEARING ASSEMBLY NOTIFICATION MECHANISM
319.	9963998	Garrett Transportation I Inc.	ASSEMBLY WITH BEARINGS AND SPACER
320.	9556880	Garrett Transportation I Inc.	TURBINE EXHAUST SEAL
321.	9163589	Garrett Transportation I Inc.	VALVE SEAT AND GASKET FOR EXHAUST BYPASS VALVE
322.	10047760	Garrett Transportation I Inc.	TURBINE WASTEGATE PLUG
323.	9863275	Garrett Transportation I Inc.	TURBINE SHROUD CONTOUR EXDUCER RELIEF
324.	9732766	Garrett Transportation I Inc.	ELECTRIC MOTOR-DRIVEN COMPRESSOR HAVING A HEAT SHIELD FORMING A WALL OF A DIFFUSER

325.	9765687	Garrett Transportation I Inc.	TURBOCHARGER WITH VARIABLE-VANE TURBINE NOZZLE HAVING A GAS PRESSURE-RESPONSIVE VANE CLEARANCE CONTROL MEMBER
326.	9422858	Garrett Transportation I Inc.	TURBOCHARGER WITH TURBINE NOZZLE VANES AND AN ANNULAR ROTARY BYPASS VALVE
327.	9709068	Garrett Transportation I Inc.	SEALING ARRANGEMENT FOR FUEL CELL COMPRESSOR
328.	9537363	Garrett Transportation I Inc.	ELECTRIC MOTOR-DRIVEN COMPRESSOR HAVING AN ELECTRICAL TERMINAL BLOCK ASSEMBLY
329.	10006352	Garrett Transportation I Inc.	TURBINE WASTEGATE
330.	9200532	Garrett Transportation I Inc.	TURBINE WASTEGATE
331.	9556786	Garrett Transportation I Inc.	TURBINE WASTEGATE
332.	9360042	Garrett Transportation I Inc.	BEARING SLEEVE FOR AIR BEARING
333.	9499889	Garrett Transportation I Inc.	STAINLESS STEEL ALLOYS, TURBOCHARGER TURBINE HOUSINGS FORMED FROM THE STAINLESS STEEL ALLOYS, AND METHODS FOR MANUFACTURING THE SAME
334.	9341221	Garrett Transportation I Inc.	CARRIER BODY FOR A BRAKE LINING OF A DISK BRAKE WITH A DAMPER MASS FOR MODIFYING THE VIBRATION
335.	10024166	Garrett Transportation I Inc.	TURBOCHARGER SHAFT AND WHEEL ASSEMBLY
336.	9249721	Garrett Transportation I Inc.	TURBOCHARGER TURBINE WASTEGATE MECHANISM
337.	9890699	Garrett Transportation I Inc.	TURBOCHARGER TURBINE WASTEGATE MECHANISM
338.	9821410	Garrett Transportation I Inc.	TURBOCHARGER SHAFT AND WHEEL ASSEMBLY
339.	9638099	Garrett Transportation I Inc.	TURBOCHARGER TURBINE WASTEGATE MECHANISM
340.	9896752	Garrett Transportation I Inc.	STAINLESS STEEL ALLOYS, TURBOCHARGER TURBINE HOUSINGS FORMED FROM THE STAINLESS STEEL ALLOYS, AND METHODS FOR MANUFACTURING THE SAME
341.	9534281	Garrett Transportation I Inc.	STAINLESS STEEL ALLOYS, TURBOCHARGER TURBINE HOUSINGS FORMED FROM THE STAINLESS STEEL ALLOYS, AND METHODS FOR MANUFACTURING THE SAME
342.	9970312	Garrett Transportation I Inc.	TEMPERATURE MANAGEMENT FOR THROTTLE LOSS RECOVERY SYSTEMS
343.	9250150	Garrett Transportation I Inc.	TURBOCHARGER WHEEL BALANCE-TEST JIG

344.	9926807	Garrett Transportation I Inc.	GENERATOR TEMPERATURE MANAGEMENT FOR THROTTLE LOSS RECOVERY SYSTEMS
345.	10033056	Garrett Transportation I Inc.	FUEL CELL REGULATION USING LOSS RECOVERY SYSTEMS
346.	9988976	Garrett Transportation I Inc.	TURBOCHARGER
347.	9822698	Garrett Transportation I Inc.	PASSIVE AND SEMI-PASSIVE INLET-ADJUSTMENT MECHANISMS FOR COMPRESSOR, AND TURBOCHARGER HAVING SAME
348.	9719518	Garrett Transportation I Inc.	ADJUSTABLE-TRIM CENTRIFUGAL COMPRESSOR WITH PORTED SHROUD, AND TURBOCHARGER HAVING SAME
349.	9777640	Garrett Transportation I Inc.	ADJUSTABLE-TRIM CENTRIFUGAL COMPRESSOR, AND TURBOCHARGER HAVING SAME
350.	9856886	Garrett Transportation I Inc.	MULTISTAGE RADIAL COMPRESSOR BAFFLE
351.	9726035	Garrett Transportation I Inc.	HARD-STOP POSITION DETECTION METHODS AND SYSTEMS
352.	9683484	Garrett Transportation I Inc.	ADJUSTABLE-TRIM CENTRIFUGAL COMPRESSOR, AND TURBOCHARGER HAVING SAME
353.	9708925	Garrett Transportation I Inc.	ADJUSTABLE-TRIM CENTRIFUGAL COMPRESSOR, AND TURBOCHARGER HAVING SAME
354.	9938894	Garrett Transportation I Inc.	TURBOCHARGER WITH VARIABLE-VANE TURBINE NOZZLE HAVING A BYPASS MECHANISM INTEGRATED WITH THE VANES
355.	9845723	Garrett Transportation I Inc.	ADJUSTABLE-TRIM CENTRIFUGAL COMPRESSOR, AND TURBOCHARGER HAVING SAME
356.	9869237	Garrett Transportation I Inc.	TURBOCHARGER WITH COMPRESSOR OPERABLE IN EITHER SINGLE-STAGE MODE OR TWO-STAGE SERIAL MODE
357.	9827631	Garrett Transportation I Inc.	TURBOCHARGER SHAFT AND WHEEL ASSEMBLY
358.	10041351	Garrett Transportation I Inc.	TURBOCHARGER SHAFT AND WHEEL ASSEMBLY
359.	9657696	Garrett Transportation I Inc.	EXCESS POWER DISSIPATION FOR THROTTLE LOSS RECOVERY SYSTEMS
360.	9989068	Garrett Transportation I Inc.	METHOD FOR CONTROLLING A TRIM-ADJUSTMENT MECHANISM FOR A CENTRIFUGAL COMPRESSOR
361.	9695708	Garrett Transportation I Inc.	TURBOCHARGER SPRING ASSEMBLY
362.	9976476	Garrett Transportation I Inc.	TURBOCHARGER BEARING ASSEMBLY

363.	9745992	Garrett Transportation I Inc.	TURBOCHARGER BEARING DAMPER ASSEMBLY
364.	9835119	Garrett Transportation I Inc.	TEMPERATURE MANAGEMENT FOR THROTTLE LOSS RECOVERY SYSTEMS
365.	9849880	Garrett Transportation I Inc.	METHOD AND SYSTEM FOR VEHICLE CRUISE CONTROL
366.	10024228	Garrett Transportation I Inc.	COMPRESSOR RECIRCULATION VALVE WITH NOISE-SUPPRESSING MUFFLER CARTRIDGE
367.	10012138	Garrett Transportation I Inc.	EXHAUST BYPASS VALVE OF MULTI-STAGE TURBOCHARGER
368.	9932886	Garrett Transportation I Inc.	TURBOCHARGER WITH ROTARY BYPASS VALVE OPERABLE TO SELECTIVELY CONFIGURE THE TURBINE VOLUTE AS SINGLE-SCROLL OR TWIN-SCROLL
369.	10036338	Garrett Transportation I Inc.	A CONDITION-BASED POWERTRAIN CONTROL SYSTEM
370.	10060536	Garrett Transportation I Inc.	TURBOCHARGER WASTE GATE POPPET VALVE WITH FLEXIBLE SHEET METAL SEALING MEMBER
371.	6811756	Garrett Transportation I Inc.	EXHAUST GAS COOLER
372.	6807955	Garrett Transportation I Inc.	EXHAUST GAS COOLER WITH BYPASS TUBE AND EXHAUST GAS RECIRCULATION VALVE
373.	6955213	Garrett Transportation I Inc.	EXHAUST GAS HEAT EXCHANGER
374.	8302745	Garrett Transportation I Inc.	BACKING PLATE AND METHOD OF MAKING
375.	7182585	Garrett Transportation I Inc.	ELECTRICALLY DRIVEN FLOW COMPRESSOR

Patent Applications

	<u>Serial No.</u>	<u>Owner</u>	<u>Application Date</u>
1.	13/756,839	Garrett Transportation I Inc.	2/1/2013
2.	11/946,653	Garrett Transportation I Inc.	11/28/2007
3.	15/491,799	Garrett Transportation I Inc.	4/19/2017
4.	13/291,466	Garrett Transportation I Inc.	11/8/2011
5.	14/387,877	Garrett Transportation I Inc.	4/23/2013
6.	14/108,225	Garrett Transportation I Inc.	12/16/2013
7.	13/290,025	Garrett Transportation I Inc.	11/4/2011
8.	15/258,520	Garrett Transportation I Inc.	9/7/2016
9.	15/019,029	Garrett Transportation I Inc.	2/9/2016
10.	15/134,688	Garrett Transportation I Inc.	4/21/2016
11.	14/011,691	Garrett Transportation I Inc.	8/27/2013
12.	15/168,157	Garrett Transportation I Inc.	5/30/2016
13.	13/765,365	Garrett Transportation I Inc.	2/12/2013
14.	14/208,804	Garrett Transportation I Inc.	3/13/2014
15.	13/838,736	Garrett Transportation I Inc.	3/15/2013
16.	14/929,484	Garrett Transportation I Inc.	11/2/2015
17.	15/865,020	Garrett Transportation I Inc.	1/8/2018
18.	15/215,253	Garrett Transportation I Inc.	7/20/2016
19.	16/018,794	Garrett Transportation I Inc.	6/26/2018
20.	15/467,933	Garrett Transportation I Inc.	3/23/2017
21.	15/220,514	Garrett Transportation I Inc.	7/27/2016
22.	14/992,604	Garrett Transportation I Inc.	1/11/2016
23.	14/631,639	Garrett Transportation I Inc.	2/25/2015
24.	14/499,730	Garrett Transportation I Inc.	9/29/2014
25.	14/995,249	Garrett Transportation I Inc.	1/14/2016
26.	15/468,162	Garrett Transportation I Inc.	3/24/2017
27.	15/181,154	Garrett Transportation I Inc.	6/13/2016
28.	15/211,889	Garrett Transportation I Inc.	7/15/2016
29.	15/791,412	Garrett Transportation I Inc.	10/24/2017
30.	15/342,131	Garrett Transportation I Inc.	11/3/2016
31.	14/820,523	Garrett Transportation I Inc.	8/6/2015
32.	14/566,522	Garrett Transportation I Inc.	12/10/2014

33.	14/566,541	Garrett Transportation I Inc.	12/10/2014
34.	15/219,473	Garrett Transportation I Inc.	7/26/2016
35.	14/474,249	Garrett Transportation I Inc.	9/1/2014
36.	15/634,493	Garrett Transportation I Inc.	6/27/2017
37.	15/675,429	Garrett Transportation I Inc.	8/11/2017
38.	15/497,186	Garrett Transportation I Inc.	4/25/2017
39.	15/095,089	Garrett Transportation I Inc.	4/10/2016
40.	14/631,659	Garrett Transportation I Inc.	2/25/2015
41.	15/005,406	Garrett Transportation I Inc.	1/25/2016
42.	15/369,639	Garrett Transportation I Inc.	12/5/2016
43.	14/805,145	Garrett Transportation I Inc.	7/21/2015
44.	15/192,615	Garrett Transportation I Inc.	6/24/2016
45.	15/826,679	Garrett Transportation I Inc.	11/30/2017
46.	14/805,154	Garrett Transportation I Inc.	7/21/2015
47.	14/949,275	Garrett Transportation I Inc.	11/23/2015
48.	15/154,673	Garrett Transportation I Inc.	5/13/2016
49.	15/375,597	Garrett Transportation I Inc.	12/12/2016
50.	15/375,622	Garrett Transportation I Inc.	12/12/2016
51.	15/584,783	Garrett Transportation I Inc.	5/2/2017
52.	15/431,798	Garrett Transportation I Inc.	2/14/2017
53.	15/011,445	Garrett Transportation I Inc.	1/29/2016
54.	15/375,650	Garrett Transportation I Inc.	12/12/2016
55.	15/491,029	Garrett Transportation I Inc.	4/19/2017
56.	15/235,025	Garrett Transportation I Inc.	8/11/2016
57.	15/008,353	Garrett Transportation I Inc.	1/27/2016
58.	15/446,054	Garrett Transportation I Inc.	3/1/2017
59.	15/372,333	Garrett Transportation I Inc.	12/7/2016
60.	15/081,718	Garrett Transportation I Inc.	3/25/2016
61.	15/081,736	Garrett Transportation I Inc.	3/25/2016
62.	15/218,045	Garrett Transportation I Inc.	7/24/2016
63.	15/233,929	Garrett Transportation I Inc.	8/10/2016
64.	15/456,403	Garrett Transportation I Inc.	3/10/2017
65.	15/040,960	Garrett Transportation I Inc.	2/10/2016

66.	15/492,872	Garrett Transportation I Inc.	4/20/2017
67.	15/782,669	Garrett Transportation I Inc.	11/29/2016
68.	15/138,987	Garrett Transportation I Inc.	4/26/2016
69.	15/437,417	Garrett Transportation I Inc.	2/20/2017
70.	15/658,333	Garrett Transportation I Inc.	7/24/2017
71.	15/273,595	Garrett Transportation I Inc.	9/22/2016
72.	15/604,369	Garrett Transportation I Inc.	5/24/2017
73.	15/218,048	Garrett Transportation I Inc.	7/24/2016
74.	15/715,117	Garrett Transportation I Inc.	9/25/2017
75.	15/632,611	Garrett Transportation I Inc.	6/26/2017
76.	15/795,251	Garrett Transportation I Inc.	10/26/2017
77.	15/592,504	Garrett Transportation I Inc.	5/11/2017
78.	15/788,491	Garrett Transportation I Inc.	10/19/2017
79.	15/419,381	Garrett Transportation I Inc.	1/30/2017
80.	15/419,429	Garrett Transportation I Inc.	1/30/2017
81.	15/419,472	Garrett Transportation I Inc.	1/30/2017
82.	15/419,320	Garrett Transportation I Inc.	1/30/2017
83.	15/871,677	Garrett Transportation I Inc.	1/15/2018
84.	15/874,286	Garrett Transportation I Inc.	1/18/2018
85.	15/398,982	Garrett Transportation I Inc.	1/5/2017
86.	15/469,156	Garrett Transportation I Inc.	3/24/2017
87.	15/992,263	Garrett Transportation I Inc.	5/30/2018
88.	15/375,693	Garrett Transportation I Inc.	12/12/2016
89.	15/673,010	Garrett Transportation I Inc.	8/9/2017
90.	16/112,691	Garrett Transportation I Inc.	8/25/2018
91.	15/446,090	Garrett Transportation I Inc.	3/1/2017
92.	15/590,211	Garrett Transportation I Inc.	5/9/2017
93.	15/836,781	Garrett Transportation I Inc.	12/8/2017
94.	15/963,013	Garrett Transportation I Inc.	4/25/2018
95.	15/806,267	Garrett Transportation I Inc.	11/7/2017
96.	15/675,691	Garrett Transportation I Inc.	8/11/2017
97.	15/976,915	Garrett Transportation I Inc.	5/11/2018
98.	15/925,713	Garrett Transportation I Inc.	3/19/2018



99.	15/888,040	Garrett Transportation I Inc.	2/4/2018
100.	15/900,972	Garrett Transportation I Inc.	2/21/2018
101.	15/653,721	Garrett Transportation I Inc.	7/19/2017
102.	15/867,072	Garrett Transportation I Inc.	1/10/2018
103.	15/783,695	Garrett Transportation I Inc.	10/13/2017
104.	15/784,044	Garrett Transportation I Inc.	10/13/2017
105.	16/112,837	Garrett Transportation I Inc.	8/27/2018
106.	15/946,735	Garrett Transportation I Inc.	4/6/2018
107.	15/905,098	Garrett Transportation I Inc.	2/26/2018
108.	15/822,093	Garrett Transportation I Inc.	11/24/2017
109.	16/045,134	Garrett Transportation I Inc.	7/25/2018
110.	16/045,143	Garrett Transportation I Inc.	7/25/2018
111.	15/943,408	Garrett Transportation I Inc.	4/2/2018
112.	15/991,344	Garrett Transportation I Inc.	5/29/2018
113.	15/907,420	Garrett Transportation I Inc.	2/28/2018
114.	15/889,642	Garrett Transportation I Inc.	2/6/2018
115.	15/904,493	Garrett Transportation I Inc.	2/26/2018
116.	15/909,899	Garrett Transportation I Inc.	3/1/2018
117.	15/972,987	Garrett Transportation I Inc.	5/7/2018