

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
EFFECTIVE DATE:	01/31/2005

CONVEYING PARTY DATA

Name	Execution Date
Bombardier Recreational Products Inc.	01/31/2005

RECEIVING PARTY DATA

Name:	BRP US Inc.
Street Address:	10101 Science Drive
City:	Sturtevant
State/Country:	WISCONSIN
Postal Code:	53177

PROPERTY NUMBERS Total: 126

Property Type	Number
Application Number:	07012336
Application Number:	07184145
Application Number:	07637460
Application Number:	07761424
Application Number:	08970585
Application Number:	09000001
Application Number:	09000005
Application Number:	09195797
Application Number:	09262266
Application Number:	09267481
Application Number:	09268077
Application Number:	09316582
Application Number:	09368857
Application Number:	09391286

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PATENT

Application Number:	09425431
Application Number:	09456161
Application Number:	09468569
Application Number:	09528766
Application Number:	09540372
Application Number:	09547593
Application Number:	09579973
Application Number:	09597435
Application Number:	09614186
Application Number:	09621510
Application Number:	09670730
Application Number:	09714062
Application Number:	09716986
Application Number:	09723862
Application Number:	09723864
Application Number:	09723974
Application Number:	09723983
Application Number:	09724054
Application Number:	09724474
Application Number:	10005671
Application Number:	10005838
Application Number:	10049243
Application Number:	10063403
Application Number:	10064722
Application Number:	10153370
Application Number:	10171460
Application Number:	10211556
Application Number:	10268383
Application Number:	10268430
Application Number:	10319433
Application Number:	10349595
Application Number:	10359534
Application Number:	10368109
Application Number:	10410236
Application Number:	10411190

Application Number:	10436791
Application Number:	10497651
Application Number:	10604438
Application Number:	10605168
Application Number:	10605618
Application Number:	10605620
Application Number:	10605622
Application Number:	10605706
Application Number:	10605709
Application Number:	10605710
Application Number:	10605714
Application Number:	10605937
Application Number:	10616993
Application Number:	10640676
Application Number:	10640677
Application Number:	10668328
Application Number:	10675609
Application Number:	10708063
Application Number:	10708068
Application Number:	10708069
Application Number:	10708071
Application Number:	10708073
Application Number:	10708076
Application Number:	10708077
Application Number:	10708079
Application Number:	10708080
Application Number:	10708082
Application Number:	10708083
Application Number:	10708085
Application Number:	10708086
Application Number:	10708087
Application Number:	10708089
Application Number:	10708090
Application Number:	10708091
Application Number:	10708097

Application Number:	10708099
Application Number:	10813039
Application Number:	10813041
Application Number:	10879498
Application Number:	10879499
Application Number:	10960285
Application Number:	10971558
Application Number:	60558992
Application Number:	60576303
Patent Number:	RE35040
Patent Number:	RE34285
Patent Number:	RE36451
Patent Number:	RE34764
Patent Number:	RE32938
Patent Number:	4642058
Patent Number:	4632144
Patent Number:	4744153
Patent Number:	4781166
Patent Number:	4695261
Patent Number:	4892066
Patent Number:	4659315
Patent Number:	4959033
Patent Number:	4821197
Patent Number:	4820210
Patent Number:	4820212
Patent Number:	4898134
Patent Number:	4957091
Patent Number:	4786263
Patent Number:	4765304
Patent Number:	4650428
Patent Number:	4666412
Patent Number:	5006085
Patent Number:	4792315
Patent Number:	4645464
Patent Number:	4579535

Patent Number:	4906214
Patent Number:	4706414
Patent Number:	4749374
Patent Number:	5029095
Patent Number:	5032095
Patent Number:	4687450
Patent Number:	4950188

CORRESPONDENCE DATA

Fax Number: (802)862-7512
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 802-863-2375
Email: patip@drm.com
Correspondent Name: Lawrence H. Meier, Esq.
Address Line 1: 199 Main Street
Address Line 4: Burlington, VERMONT 05401

NAME OF SUBMITTER:	Lawrence H. Meier
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Total Attachments: 18
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PATENT ASSIGNMENT

This PATENT ASSIGNMENT THIS (the "Assignment") dated as of January 31, 2005 (the "Effective Date") is by and between Bombardier Recreational Products Inc., a corporation incorporated under the Laws of Canada with its registered office at 726 St-Joseph Street, Valcourt, Quebec, JOE 2L0, Canada ("Assignor"), and BRP US Inc., a corporation incorporated under the Laws of Delaware, with its registered office at 10101 Science Drive, Sturtevant, Wisconsin, 53177 ("Assignee").

WHEREAS, Assignor is the owner of certain Patents (as defined below);

WHEREAS, pursuant to the Patent Assignment Agreement dated as of the Effective Date between Assignor and Assignee (the "Patent Assignment Agreement"), Assignor has sold to Assignee, and Assignee has purchased from Assignor, certain patents and industrial designs and applications therefor as set forth in Exhibit A attached hereto and all re-examinations, reissues, divisions, renewals, extensions, provisionals, continuations and continuations-in-part thereof (the "Patents");

WHEREAS, pursuant to the Patent Assignment Agreement, Assignor and Assignee wish to enter into this Assignment to confirm the assignment from Assignor to Assignee of all of Assignor's rights to the Patents; and

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor assigns to Assignee all rights, title and interests in and to the Patents, and all letters patent which have been or may be granted thereon, together with the right to sue and recover damages for future or past infringements of the Patents and to fully and entirely stand in the place of Assignor in all matters related thereto.

Assignor hereby requests the Commissioner of Patents and Trademarks or such other corresponding responsible authority (the "Commissioner") to record this Assignment to Assignee. Assignor hereby further requests the Commissioner to issue any and all letters patent or derived from the Patent to Assignee as assignee of the entire interest.

This Agreement shall be governed by, and any dispute, disagreement, controversy or claim arising out of or in connection with this Agreement, including any question regarding its negotiation, existence, validity, interpretation, performance, breach or termination, shall be resolved in accordance with, the Laws of the Province of Quebec (to the exclusion of its conflict of law rules) and the Laws of Canada applicable therein.

This Assignment may be executed in counterparts, each of which shall be an original and all of which when taken together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the Parties have executed, made and entered into this Assignment under seal as of the date first set forth above.

ASSIGNOR:

BOMBARDIER RECREATIONAL PRODUCTS INC.

By: [Signature]

Name: Louis Morin

Title: Chief Financial Officer

By: [Signature]

Name: François Tessier

Title: Vice President, Finance and Accounting

City of Valcourt, Quebec, Canada

On this the 31st day of January, 2005, before me personally appeared Louis Morin and François Tessier to me personally known, and known to me to be the persons who signed the foregoing assignment, and acknowledged the signing of same as their free act and deed.

[Signature]
Commissioner of Oaths
Suzanne Lévesque Bergeron

My commission expires Nov. 22/2007



ASSIGNEE:

BRP US INC.

By: [Signature]

Name: Louis Morin

Title: Chief Financial Officer

By: [Signature]

Name: Jennifer Millson

Title: Secretary

City of Valcourt, Quebec, Canada

On this the 31st day of January, 2005, before me personally appeared Louis Morin and Jennifer Millson to me personally known, and known to me to be the persons who signed the foregoing assignment, and acknowledged the signing of same as their free act and deed.

[Signature]
Commissioner of Oaths
Suzanne Lévesque Bergeron

My commission expires Nov. 22/2007



EXHIBIT A

Patents

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
Canada	Filed	2,469,058		06/02/2004		Reciprocating Fluid Pump Employing Reversing Polarity Motor
China	Filed	01823849.1		06/01/2004		Reciprocating Fluid Pump Employing Reversing Polarity Motor
Europe	Filed	01990021.6		07/05/2004		Reciprocating Fluid Pump Employing Reversing Polarity Motor
India	Filed	1821/DELNP/2004		06/25/2004		Reciprocating Fluid Pump Employing Reversing Polarity Motor
Russia	Filed	2004120554		07/02/2004		Reciprocating Fluid Pump Employing Reversing Polarity Motor
USA	Filed	07/012,336		02/09/1987		Electronically assisted engine starting means
USA	Filed	07/184,145		04/21/1988		Under the flywheel Ignition system
USA	Filed	07/637,460		01/04/1991		Fuel pump and fuel filter for a marine installation
USA	Filed	07/761,424		09/17/1991		Fuel pump and fuel filter for a marine installation
USA	Filed	08/970,585		11/14/1997		High Performance Alternator Using Duplex Mode Generation
USA	Filed	09/000,001		06/01/1930		Tilt-Trim System Having a Motor with Aluminum Bracket
USA	Filed	09/000,005		07/19/1932		Tilt-Trim System Motor with Polyolefin or Chlorosulfonated P
USA	Filed	09/195,797		11/19/1998		Method of operating a fuel injected engine
USA	Filed	09/262,266		03/04/1999		Stern Drive System and Method of Installation Thereof
USA	Filed	09/267,481		03/11/1999		Oil Injection System
USA	Filed	09/268,077		03/12/1999		Fuel Injection for Combustion Engines and Method For Making
USA	Filed	09/316,582		05/21/1999		Modular Pontoon Boats
USA	Filed	09/368,857		08/05/1999		Direct fuel-injected Internal combustion using using graphite-based pistons
USA	Filed	09/391,286		09/07/1999		Pump Jet Rotor Housing Modification for Noise Signature Spec
USA	Filed	09/425,431		10/22/1999		A Fuel Delivery System For A Boat
USA	Filed	09/456,161		12/07/1999		Water Jet Propulsion Apparatus with Inboard Mounted Power So
USA	Filed	09/468,569		12/21/1999		Single Cylinder Tilt-Trim Assembly For Boats Using a Stern D
USA	Filed	09/526,766		03/17/2000		Reciprocating Fluid Pump Employing Reversing Polarity Motor
USA	Filed	09/540,372		03/31/2000		Marine Propulsion Control System with Bus Signal Transfer To
USA	Filed	09/547,593		04/11/2000		Propeller Assembly
USA	Filed	09/579,973		05/26/2000		Method And Apparatus For Quick Starting A Rope-Start Two-Str
USA	Filed	09/597,435		06/20/2000		Fuel Injector Assembly Process
USA	Filed	09/614,186		07/11/2000		Watercraft with Steerable Planing Surface
USA	Filed	09/621,510		07/21/2000		Removable Marine Gear Case Plate
USA	Filed	09/670,730		09/27/2000		An Engine Oiling System And An Oil System Distribution Manif
USA	Filed	09/714,062		11/16/2000		System and Method for Information Exchange Between a Multi-D
USA	Filed	09/716,986		10/23/2000		Silk Drive On Small Engines

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Filed	09/723,862		11/28/2000		System and Method for Controlling An Internal Combustion Eng
USA	Filed	09/723,864		11/28/2000		Method And Apparatus For Identifying Parameters Of An Engine
USA	Filed	09/723,974		11/28/2000		Dewatering System For Submersible Engine
USA	Filed	09/723,983		11/28/2000		Jet-Propelled Boat Having Through Hull Housing for Shaft Pen
USA	Filed	09/724,054		11/28/2000		Vibration Isolation for Mounting Water Jet Propulsion Unit
USA	Filed	09/724,474		11/28/2000		Submersible Outboard Motor Having Fuel Injection
USA	Filed	10/005,671		11/08/2001		A Two-Piece Flow Homogenizing Fuel Injection Nozzle and Syst
USA	Filed	10/005,838		11/08/2001		A Large Volume Flow-Homogenizing Fuel Injection Nozzle and S
USA	Filed	10/049,243		07/26/2000		Device for Delivering and/or Spraying Flowable Media especia
USA	Filed	10/063,403		04/18/2002		Two-Stroke, direct-injected engine having a fuel-free crankc
USA	Filed	10/064,722		08/09/2002		Vent Control System
USA	Filed	10/153,370		05/21/2002		Injector Driver Circuit With Energy Storage Apparatus
USA	Filed	10/171,460		06/12/2002		Convertible Outboard Motor Tiller Arm and Motor Incorporatin
USA	Filed	10/211,556		08/05/2002		Fuel pump
USA	Filed	10/248,722		02/12/2003		W-Bowl Piston
USA	Filed	10/248,722		02/12/2003		Piston For Spark-Ignited Direct Fuel Injection Engine
USA	Filed	10/268,383		10/10/2002		Oil Injection System
USA	Filed	10/268,430		10/10/2002		Method And Apparatus For Dissipating Heat From A Combustion
USA	Filed	10/319,433		12/13/2002		Reverse Gate For Water Jet Propulsion System
USA	Filed	10/349,595		01/22/2003		Shift Enabling Interrupt System
USA	Filed	10/359,534		02/03/2003		Dewatering System For Submersible Engine
USA	Filed	10/368,109		02/14/2003		Method And Apparatus For Identifying Parameters Of An Engine
USA	Filed	10/410,236		04/10/2003		Outboard Engine Cowling
USA	Filed	10/411,190		04/11/2003		Watercraft Having a Jet Propulsion System with Improved Effi
USA	Filed	10/436,791		05/12/2003		Methods and apparatus for engine diagnostics
USA	Filed	10/497,651		11/11/2004		Direct-Injected Internal Combustion Engine Having Improved Spark Ignition System
USA	Filed	10/604,438		07/21/2003		Apparatus and Method to reduce engine calibration
USA	Filed	10/605,168		09/12/2003		Method and System For Fuel Injector Time Delay Installation
USA	Filed	10/605,618		10/14/2003		Reverse gate for a watercraft
USA	Filed	10/605,620		10/14/2003		Actuator Assisted Blow-Off Valve Assembly to Control Coolant
USA	Filed	10/605,622		10/14/2003		Adaptative Idle speed control for a direct injected Internal combustion engine
USA	Filed	10/605,706		10/21/2003		Swirl Fuel Injector For Internal Combustion Engine
USA	Filed	10/605,709		10/21/2003		System and method for predictive under-fuelling and over-fueling in a combustion

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Filed	10/605,710		10/21/2003		System and Method to Detect and Correct Spark Plug Fouling in a Marine Engine
USA	Filed	10/605,714		10/21/2003		Air Intake Silencer
USA	Filed	10/605,937		11/06/2003		Flywheel with torsional dampening ring
USA	Filed	10/616,993		07/11/2003		Interchangeable Frame for a Display Device
USA	Filed	10/640,676		08/14/2003		Deck Boat
USA	Filed	10/640,677		08/14/2003		Deck Boat (Buddy Seat)
USA	Filed	10/668328		09/24/2003		Fuel Pump
USA	Filed	10/675,609		09/30/2003		Fuel Injector driver circuit with energy storage apparatus
USA	Filed	10/708,063		02/06/2004		Common Composition Engine Control Unit and Voltage Regulator
USA	Filed	10/708,064		02/06/2004		System and Method fo Controlling Variable Battery Charging System
USA	Filed	10/708,064		02/06/2004		Dynamically Controlled Switching Alternator System
USA	Filed	10/708,068		02/06/2004		Engine Mounted Fault Indicator
USA	Filed	10/708,069		02/06/2004		Mounting for Permanent Magnets in Reciprocating Fluid Pump Employing Reversing Polarity Motor
USA	Filed	10/708,071		02/06/2004		System and Method for Charging a Battery in a Recreational Product from an Engine Driven High Voltage Charging System
USA	Filed	10/708,073		02/06/2004		Bobbin Assembly for Use In Reciprocating Fluid Pump Employing Reversing Polarity Motor
USA	Filed	10/708,076		02/06/2004		Low Speed Combustion Air Bypass Tube
USA	Filed	10/708,077		02/06/2004		Throttle Assembly Having Deadband Linkage
USA	Filed	10/708,079		02/06/2004		Apparatus and Method of Conditioning an Engine for Storage
USA	Filed	10/708,080		02/06/2004		Idle Relief Muffler
USA	Filed	10/708,082		02/06/2004		Engine Crankcase Oil System
USA	Filed	10/708,083		02/06/2004		Method and System of Throttle Control Calibration
USA	Filed	10/708,085		02/06/2004		Molded Motor Silencing System Having a Vibro-Accoustic Material
USA	Filed	10/708,086		02/06/2004		Cross-Platform Engine Control Unit
USA	Filed	10/708,087		02/06/2004		Method and Apparatus to Control a Low Voltage Fuel Pump from a High Voltage Power Source
USA	Filed	10/708,089		02/06/2004		Method and System to Control Amperage to a Subsystem Component Rated at One Voltage in a System Operating at Another Voltage
USA	Filed	10/708,090		02/06/2004		Engine Mounted Oil Tank
USA	Filed	10/708,091		02/06/2004		Engine Control Unit Enablement System
USA	Filed	10/708,097		02/09/2004		Plunger Assembly for Use In Reciprocating Fluid Pump Employing Reversing Polarity Motor
USA	Filed	10/708,099		02/09/2004		Dual Zone Combustion Chamber
USA	Filed	10/813,039		03/31/2004		Watersport Tower and Top Combination for Watercraft and Method
USA	Filed	10/813,041		03/31/2004		Watersport Implement Leverage System
USA	Filed	10/879,498		06/30/2004		Attachment System for Watercraft Accessories
USA	Filed	10/879,499		06/30/2004		Engine Cover Assembly for Watercraft
USA	Filed	10/960,285		10/07/2004		Flywheel Assembly Having Elastomer Ring
USA	Filed	10/971,558		10/25/2004		Dual Temperature Closed Loop Cooling System
USA	Filed	60/558,992		04/05/2004		Large Flow-Homogenizing Fuel Injection Nozzle and System and Method Incorporating Same
USA	Filed	60/576,303		06/03/2004		Multi-Fuel Outboard Engine
USA	Filed	PCT/US02/21592		07/10/2002		Engine diagnostic software
USA	Filed	PCT/US02/39907		12/13/2002		Direct Fuel-Injected Internal Combustion Engine Having Impro

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Filed	WO 02/36946		11/05/2001		Direct Injection two-stroke engine combustion mapping
USA	Granted	509,877	RE35,040	04/16/1990	09/26/1995	Pressure and temperatue relief valve and diaphragm valve
USA	Granted	452,559	RE34,285	12/18/1989	06/15/1993	Automatic Trim System
USA	Granted	08/644,404	RE36,451	05/01/1996	12/21/1999	Two-stroke internal combustion engine with improved air inla
USA	Granted	042620	RE34,764	04/02/1993	10/25/1994	Exhaust gas discharge system for two-stroke internal combustion engine
USA	Granted	406,446	RE32,938	08/09/1982	06/06/1989	Dual fuel system for internal combustion engine
USA	Granted	1985000731159	4,642,058	05/06/1985	02/10/1987	Hydraulic system for marine propulsio devices
USA	Granted	1985000749474	4,632,144	06/27/1985	12/30/1986	Combined fluid pressure actuated fuel and oil pump
USA	Granted	1986000910445	4,744,153	09/22/1986	05/17/1988	Method and apparatus for determining the thickness of shim required for properly loading and positioning the bearing assembly of a marine propulsion drive shaft
USA	Granted	1987000067702	4,781,166	06/29/1987	11/01/1988	Voltage regulated magneto powered capacitive discharge ignition system
USA	Granted	1985000752258	4,695,261	07/03/1985	09/22/1987	Marine propulsio engine voltage generator arrangement
USA	Granted	123,357	4,892,066	11/19/1987	01/09/1990	Multi-Cylinder Two-Stroke Engine with Reduced Cost and Compl
USA	Granted	1985000731160	4,659,315	05/06/1985	04/21/1987	Hydraulic system for marine propulsio devices
USA	Granted	07/351,865	4,959,033	05/12/1989	09/25/1990	Marine propulsio device cover arrangement
USA	Granted	1987000041302	4,821,197	04/22/1987	04/11/1989	Apparatus and method for parts assembly
USA	Granted	122,221	4,820,210	11/18/1987	04/11/1989	Lower gearcase shift mechanism for marine propulsio device
USA	Granted	07/108,924	4,820,212	10/15/1987	04/11/1989	Marine propulsio device bearing lubrication system
USA	Granted	316,154	4,898,134	02/27/1989	02/06/1990	Crankcase Seal Arrangement for Two Cycle Engine
USA	Granted	07/315,147	4,957,091	02/24/1989	09/18/1990	Dual schedule ignition system
USA	Granted	1987000103507	4,786,263	10/01/1987	11/22/1988	Marine propulsio device power tilt and trim mechanism
USA	Granted	1987000112931	4,765,304	10/26/1987	08/23/1988	Internal combustion engine with compressed air collection system
USA	Granted	1985000723310	4,650,428	04/15/1985	03/17/1987	Marine propulsio device with floating drive shaft
USA	Granted	1985000739108	4,666,412	05/30/1985	05/19/1987	Marine engine mounting apparatus
USA	Granted	351,830	5,006,085	05/12/1989	04/09/1991	Marine propulsio device with removable clutch assembly
USA	Granted	947106	4,792,315	12/29/1986	12/20/1988	Drive shaft assembly for outboard motor
USA	Granted	1985000698873	4,645,464	02/06/1985	02/24/1987	Steering and tilting means for marine propulsio device
USA	Granted	1985000750056	4,579,535	06/27/1985	04/01/1986	Steering mechanism
USA	Granted	07/106,118	4,906,214	10/07/1987	03/06/1990	Marine propulsio device low-speed exhaust system
USA	Granted	1985000737933	4,706,414	05/28/1985	11/17/1987	Apparatus for rotatably supporting a marine propeller in a vibrating media
USA	Granted	1986000001825	4,749,374	12/15/1986	06/07/1988	Marine propulsio device power steering system
USA	Granted	334,912	5,029,095	04/06/1989	07/02/1991	Apparatus and method for parts assembly
USA	Granted	367,858	5,032,095	06/19/1989	07/16/1991	Marine Engine with Galvanic Circuit Protection
USA	Granted	910325	4,687,450	09/22/1986	08/18/1987	Marine propulsio device exhaust system
USA	Granted	351,446	4,950,188	05/12/1989	08/21/1990	Stem drive unit

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted	631,207	5,137,002	12/21/1990	04/11/1992	Vapor Separator
USA	Granted	479,936	5,049,101	02/14/1990	09/17/1991	Marine propulsion device with arrangement for flushing engine cooling jacket
USA	Granted	1987000065941	4,789,366	06/24/1987	12/06/1988	Marine propulsion device ball clutch transmission
USA	Granted	07/137509	4,861,296	12/23/1987	08/29/1989	Marine propulsion device exhaust system
USA	Granted	387,196	4,993,165	07/31/1989	02/19/1991	Method and apparatus for determining necessary shim thickness for a marine propulsion device pinion and bearing carrier
USA	Granted	1985000715479	4,660,514	03/25/1985	04/28/1987	
USA	Granted	1990000475982	5,030,147	02/06/1990	09/09/1991	In-trimming hydraulic circuit
USA	Granted	1987000058365	4,795,383	06/04/1986	01/03/1989	Marine propulsion device low-speed exhaust system
USA	Granted	1990000479945	5,078,101	02/14/1990	01/07/1992	Marine propulsion device internal combustion engine
USA	Granted	1987000063208	4,778,419	06/16/1987	10/18/1988	Reverse thrust propeller
USA	Granted	1991000710163	5,151,059	06/04/1991	09/29/1992	Shiftable reversing transmission for marine propulsion device
USA	Granted	487,669	5,024,188	03/02/1990	06/18/1991	Fuel supply system component assembly
USA	Granted	1992000847928	5,194,025	03/06/1992	03/16/1993	Vibration absorbing steering device for outboard motor
USA	Granted	512,797	5,035,211	04/23/1990	07/30/1991	Internal combustion engine
USA	Granted	608,541	5,184,080	11/02/1990	02/02/1993	Test Apparatus For Opto-Electronic Time Based Generator Of A
USA	Granted	07/182,477	4,863,406	04/15/1988	09/05/1989	Marine propulsion device with two piece propeller shaft axle
USA	Granted	1991000701618	5,176,093	05/14/1991	01/05/1993	Marine propulsion device
USA	Granted	954,492	5,273,016	09/30/1992	12/28/1993	Throttle Lever Position Sensor for two-stroke fuel injected
USA	Granted	1986000802132	4,699,598	09/02/1986	10/13/1987	Marine propulsion device water supply system
USA	Granted	797,745	4,978,321	11/12/1985	12/18/1990	Baffled air intake system for outboard motors
USA	Granted	350,936	4,948,384	05/12/1989	08/14/1990	Marine propulsion device anode arrangement
USA	Granted	403,985	4,925,411	09/06/1989	05/15/1990	Marine propulsion device tilt and trim mechanism
USA	Granted	788,507	5,256,091	11/06/1991	10/23/1993	Shift interlock system
USA	Granted	1987000112472	4,779,581	10/26/1987	10/25/1988	Dual fuel injection system for two stroke internal combustion engine
USA	Granted	526,065	4,993,369	05/18/1990	02/19/1991	Internal combustion engine
USA	Granted	1991000782427	5,203,167	10/25/1991	04/20/1993	Marine propulsion device internal combustion engine and method for making the same
USA	Granted	1989000373283	5,112,259	06/26/1989	05/12/1992	Two piece drive shaft retention device for outboard motor
USA	Granted	657,241	5,112,260	12/17/1990	05/12/1992	Marine Propulsion Device Exhaust System
USA	Granted	901967	4,753,619	08/29/1986	06/28/1988	Marine propulsion device
USA	Granted	07/525,914	5,037,338	05/18/1990	08/06/1991	Tilt Limit Switch
USA	Granted	512,951	5,022,355	04/23/1990	06/11/1991	Internal combustion engine
USA	Granted	1987000004756	4,708,673	01/08/1987	11/24/1987	Outboard motor cowl assembly
USA	Granted	1991000737388	5,188,206	07/29/1991	02/23/1993	Single lever control
USA	Granted	525,251	5,007,393	05/17/1990	04/16/1991	Integral lifting hook for an outboard engine
USA	Granted	526,499	5,052,353	05/18/1990	10/01/1991	Marine propulsion device cowl assembly
USA	Granted	561,290	5,011,398	07/26/1990	04/30/1991	Apparatus for lost foam molding and method of assembling same
USA	Granted	07/989,806	5,228,194	12/09/1992	07/20/1993	Marine propulsion device with closed deck
USA	Granted	1992000829411	5,174,252	02/03/1992	12/29/1992	Exhaust manifold expansion slot for internal combustion motor

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted	1985000744482	4,722,705	06/13/1985	02/02/1988	Marine propulsion device with swing angle indication mechanism
USA	Granted	1991000782545	5,192,235	10/25/1991	03/09/1993	Outboard motor vibration isolation system including improved rubber mount
USA	Granted	1985000727814	4,722,708	04/26/1985	02/02/1988	Marine propulsion device fuel distribution system
USA	Granted	1990000623272	5,088,344	12/06/1990	02/18/1992	Marine propulsion internal combustion engine
USA	Granted	589,430	5,106,330	09/28/1990	04/21/1992	Exhaust Relief System With Baffle
USA	Granted	07/131,457	4,858,585	12/11/1987	08/22/1989	Fuel supply system component assembly
USA	Granted	247,000	5,419,037	05/20/1994	05/30/1995	Method of inserting, boring, and honing a cylinder bore liner
USA	Granted	1990000523329	5,102,358	05/14/1990	04/07/1992	Marine propulsion device with trailing mechanism including positive mechanical latch
USA	Granted	525,746	5,062,403	05/18/1990	11/05/1991	Internal combustion engine
USA	Granted	1991000657658	5,195,276	02/15/1991	03/23/1993	Apparatus and method for flushing a casting
USA	Granted	272,544	4,951,520	11/17/1988	08/28/1990	Single lever control
USA	Granted	235,682	5,449,033	04/29/1994	09/12/1995	Cylinder head pattern assembly
USA	Granted	276,718	5,472,013	07/18/1994	12/05/1995	Fuel Injection Nozzle
USA	Granted	235,502	5,443,044	04/29/1994	08/22/1995	Outboard motor with four stroke engine
USA	Granted	602,919	5,131,366	10/25/1990	07/21/1992	Apparatus for positioning a sensor
USA	Granted	1991000716912	5,180,320	06/18/1991	01/19/1993	Tilt switch for tiller-steered outboard
USA	Granted	1992000830769	5,203,306	02/03/1992	04/20/1993	Fuel feed system
USA	Granted	375,268	5,474,035	01/19/1995	12/12/1995	Engine Breather Construction
USA	Granted	583,008	5,048,468	09/14/1990	09/17/1991	Marine propulsion device with closed deck Cylinder Block Con
USA	Granted	118,155	5,410,110	09/08/1993	04/25/1995	Air Silencer Mounting Arrangement
USA	Granted	1987000028958	4,744,777	03/23/1987	05/17/1988	Power steering system for marine propulsion device
USA	Granted	316,417	4,966,567	02/27/1989	10/30/1990	Marine propulsion device
USA	Granted	482,932	5,005,535	02/20/1990	04/09/1991	Internal combustion engine with recessed intake manifold
USA	Granted	216,770	5,372,176	03/23/1994	12/13/1994	Method and Apparatus for Producing Housing Having a Cast-In-Place Insert Using Lost Foam Process
USA	Granted	1985000742583	4,757,792	06/07/1985	07/19/1988	Internal combustion engine
USA	Granted	338,743	4,903,648	04/14/1989	02/27/1990	Engine with Improved Exhaust Gas Sensing
USA	Granted	078,137	5,378,178	06/15/1993	01/03/1995	Tiller Arm and Steering Bracket Assembly
USA	Granted	351,857	4,971,585	05/12/1989	11/20/1990	Marine propulsion device seal arrangement
USA	Granted	527,556	5,040,519	05/23/1990	08/20/1991	System to prevent reverse engine operation
USA	Granted	08/055,982	5,338,236	04/29/1993	08/16/1994	Motor Cover Latch
USA	Granted	306,245	5,018,568	02/02/1989	05/28/1991	Lost foam engine block pattern
USA	Granted	1992000908151	5,199,388	07/02/1992	04/06/1993	Axial fan flywheel
USA	Granted	1985000773591	4,718,872	09/09/1985	01/12/1988	Automatic trim system
USA	Granted	636,561	5,054,537	01/07/1991	10/08/1991	Lost Foam Pattern Assembly For V-Block Engine
USA	Granted	136,413	5,437,155	10/13/1993	08/01/1995	Outboard Motor Exhaust System
USA	Granted	823,258	5,234,362	01/21/1992	08/10/1993	Outboard motor with improved housing interface
USA	Granted	07/874,629	5,203,396	04/27/1992	04/20/1993	Vacuum valve apparatus for die casting
USA	Granted	1994000253362	5,558,058	06/03/1994	09/24/1996	Four stroke engine with combined oil pump and filter assembly
USA	Granted	1991000709599	5,137,480	06/03/1991	08/11/1992	Marine propulsion device hydraulic assembly including a blow molded reservoir
USA	Granted	322,207	5,540,084	10/13/1994	07/30/1996	Vacuum System Testing Tool
USA	Granted	874,648	5,219,409	04/27/1992	06/15/1993	Vacuum die casting process
USA	Granted	515,824	5,044,599	04/27/1990	09/03/1991	Cover for transom bracket mounting screws

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted	1987000131449	4,831,820	12/11/1987	05/23/1989	Engine with exhaust gas sensing
USA	Granted	1985000710057	4,800,856	03/11/1985	01/31/1989	Abrasion resistant roller apparatus for internal combustion engines
USA	Granted	128,475	5,425,232	09/28/1993	06/20/1995	Marine propulsion device with means for supplying secondary air to catalytic converter
USA	Granted	1987000129457	4,838,822	12/07/1987	06/13/1989	Shift linkage for marine propulsion device
USA	Granted	722,004	4,938,726	04/11/1985	07/03/1990	Marine propulsion device bellows assembly
USA	Granted	08/295,807	5,520,154	02/09/1884	05/28/1996	Fuel injection device according to the solid-state energy storage principle for internal combustion engines
USA	Granted	1992000874740	5,199,480	04/27/1992	04/06/1993	Sealed shot sleeve for vacuum die casting
USA	Granted	1994000254999	5,498,181	06/07/1994	03/12/1996	Outboard motor power head assembly
USA	Granted	77,562	5,350,329	06/15/1993	09/27/1994	Flushing system for outboard motor
USA	Granted	1994000255096	5,498,182	06/07/1994	03/12/1996	Outboard motor exhaust housing and lost foam pattern therefore
USA	Granted	245,977	5,456,230	05/19/1994	10/10/1995	Four-Stroke Internal Combustion Engine with Contaminated Oil
USA	Granted	1992000831525	5,193,499	02/05/1992	03/16/1993	Cast inter-cylinder cooling passage for internal combustion motors
USA	Granted	1991000654088	5,193,500	02/11/1991	03/16/1993	Oiling system for internal combustion engine
USA	Granted	1990000525862	5,080,617	05/18/1990	01/14/1992	Marine propulsion device with directable telltale discharge
USA	Granted	351,703	5,035,663	05/12/1989	07/30/1991	Marine Propulsion Device Retention Mechanism
USA	Granted	351,172	5,035,664	05/12/1989	07/30/1991	Marine propulsion device gear arrangement
USA	Granted	918,582	5,332,368	07/22/1992	07/26/1994	Air compressor having a high pressure output
USA	Granted	08/507,058	5,639,062	07/25/1995	06/17/1997	Modified Heel Valve Construction
USA	Granted	07/823,293	5,215,487	01/21/1992	06/01/1993	Marine Propulsion Device Water Inlet Screen
USA	Granted	07/062,435	4,799,905	06/12/1987	01/24/1989	Water Jacketed Exhaust Relief System for Marine Propulsion D
USA	Granted	1989000451885	5,078,627	12/18/1989	01/07/1992	Voltage regulator and rectifier having over-temperature protection
USA	Granted	1990000525595	5,069,643	05/18/1990	12/03/1991	Molded lower motor cover
USA	Granted	1991000744952	5,167,546	08/14/1991	12/01/1992	Automatic trim system
USA	Granted	315,900	5,031,685	02/27/1989	07/16/1991	Internal combustion engine and method for making the same
USA	Granted	1993000065993	5,360,358	05/21/1993	11/01/1994	Hidden lower motor cover attachment means
USA	Granted	253,926	5,421,298	06/03/1994	06/06/1995	Outboard motor including easy withdrawal and insertion of camshaft and rocker arm support shaft
USA	Granted	07/311,090	4,862,861	02/15/1989	09/05/1989	Under flywheel ignition system
USA	Granted	1991000736476	5,176,549	07/26/1991	01/05/1993	Marine steering apparatus
USA	Granted	1990000554542	5,101,626	07/19/1990	04/07/1992	Exhaust gas discharge system for two-stroke internal combustion engine
USA	Granted	1992000847437	5,176,551	03/06/1992	01/05/1993	Arrangement for supplying combustion air to an outboard motor
USA	Granted	270,767	4,932,795	11/10/1988	06/12/1990	Electrically conductive plastic bushings for marine propulsion devices
USA	Granted	08/506,880	5,687,050	25/07/1995	11/11/1997	Electronic control circuit for an internal combustion engine
USA	Granted	07/852,535	5,273,467	03/17/1992	12/28/1993	Exhaust Discharge for a Pump Jet
USA	Granted		5,662,081	07/24/1995	09/02/1997	Oil supply failure detection circuit
USA	Granted	1992000834609	5,178,567	02/12/1992	01/12/1993	Marine engine housing cooling apparatus

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted	08/107,835	5,540,206	19/08/1993	07/30/1996	Fuel Injection device for internal combustion engines
USA	Granted	1991000723811	5,178,568	07/01/1991	01/12/1993	Marine propulsion device with trailing mechanism including positive mechanical latch
USA	Granted	188,952	4,947,807	05/02/1988	08/14/1990	Internal combustion engine
USA	Granted	07/055,733	4,850,910	05/29/1987	07/25/1989	Counter-Rotation Transmission
USA	Granted	509,978	5,038,724	04/16/1990	08/13/1991	Debris resistant valve assembly
USA	Granted	126,549	5,407,372	09/24/1993	04/18/1995	Outboard motor cover assembly
USA	Granted	08/610,553	5,738,051	03/06/1996	04/14/1998	Four cycle marine engine
USA	Granted	136,737	4,829,961	12/21/1987	05/16/1989	Linkage for activating throttle and spark advance
USA	Granted	215,575	4,870,929	07/06/1988	10/03/1989	Multi-Cylinder Engine with Uniform Cylinder Sensitivity to K
USA	Granted	509,877	5,048,751	04/16/1990	09/17/1991	Pressure and Temperature Relief Valve and Diaphragm Valve
USA	Granted	959,865	5,372,429	10/13/1992	12/13/1994	Sealable and reusable pouch
USA	Granted	1992000898481	5,211,591	06/15/1992	05/18/1993	Shift rod quick connect and disconnect
USA	Granted	1990000526044	5,154,651	05/18/1990	10/13/1992	Marine propulsion device tilt tube
USA	Granted	1987000043108	4,831,979	04/27/1987	05/23/1989	Wrist pin lubrication system for two cycle engines
USA	Granted	321,053	5,480,330	10/04/1994	01/02/1996	Marine Propulsion Pump With Two Counter Rotating Impellers
USA	Granted	896,143	5,275,539	06/09/1992	01/04/1994	Internal Combustion Engine Oil Pump
USA	Granted	489,363	5,714,104	06/12/1995	02/03/1998	Method of molding FRP parts
USA	Granted	799,735	5,409,409	11/22/1991	04/25/1995	Marine apparatus
USA	Granted	147,973	5,464,357	11/05/1993	11/07/1995	Jet Pump Exhaust System
USA	Granted	552,396	5,595,235	11/03/1995	01/21/1997	Outboard motor exhaust housing and lost foam pattern therefor
USA	Granted	118,413	5,411,423	09/08/1993	05/02/1995	Marine propulsion device with releasably coupled drive shaft assembly
USA	Granted	09/181,578	5,530,305	11/24/1994	06/25/1996	Improved Marine Alternator Engine Construction
USA	Granted	08/083,998	5,348,500	06/28/1993	09/20/1994	Marine propulsion device with selectively operable secondary exhaust discharge
USA	Granted	126,784	5,443,406	09/24/1993	08/22/1995	Vibration Isolating mounting for outboard motor
USA	Granted	697,061	5,700,168	08/19/1996	12/23/1997	Electronic Ignition Interruption apparatus
USA	Granted	08/507,051	5,632,241	07/25/1995	05/27/1997	Oil Lubricating System for a two stroke internal combustion
USA	Granted	1991000762859	5,201,680	04/13/1993	04/13/1994	Marine propulsion device having quick-disconnect connector
USA	Granted	1991000726157	5,209,684	05/11/1993	05/11/1993	Marine propulsion device
USA	Granted	316,285	4,979,918	02/27/1989	12/25/1990	Outboard motor vibration isolation system including improved rubber mount
USA	Granted	46,492	5,372,529	04/09/1993	12/13/1994	Trim assembly
USA	Granted	127,793	5,372,530	09/28/1993	12/13/1994	Outboard motor with separated exhaust gas pulsing and exhaust gas discharge
USA	Granted	1990000521590	5,086,825	05/10/1990	02/11/1992	Method for manufacturing foam pattern assemblies
USA	Granted	945,821	5,277,634	09/15/1992	01/11/1994	Lower Unit Torpedo Configuration
USA	Granted	1992000841048	5,170,752	02/25/1992	12/15/1992	Thermostat cover with snap-in nipple
USA	Granted	253,862	5,462,464	06/03/1994	10/31/1995	Outboard motor with oil sump cooling arrangement
USA	Granted	106,055	5,407,523	08/13/1993	04/18/1995	Apparatus for assembling lost foam casting patterns
USA	Granted		5,846,103	10/09/1996	12/08/1998	Tractor Pump Jet
USA	Granted		5,846,105	07/29/1997	12/08/1998	Marine jet propulsion water inlet system
USA	Granted	523,328	4,998,969	05/14/1990	03/12/1991	Engine maintenance fluid introduction system

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted	351,441	4,993,979	05/12/1989	02/19/1991	Marine propulsion device
USA	Granted	1991000740988	5,129,847	08/06/1991	07/14/1992	Pivotal air induction for marine propulsion unit
USA	Granted	08/506,465	5,608,369	07/25/1995	03/04/1997	Magnetic Gap Construction
USA	Granted	418,502	5,562,428	04/07/1995	10/08/1996	Fuel Injection Pump having an adjustable inlet poppet valve
USA	Granted		5,992,016	08/20/1997	11/30/1999	Method of controlling the magnetic gap length and the initial
USA	Granted	523,029	5,052,956	05/14/1990	10/01/1991	Marine propulsion device with dual position tilt lock
USA	Granted	448,191	5,573,436	05/23/1995	11/12/1996	Semi-Submersible Outboard Motor Cover with Air Passage
USA	Granted	512,994	5,052,959	04/23/1990	10/01/1991	Marine propulsion device bearing arrangement
USA	Granted	08/147,880	5,460,552	11/05/1993	10/24/1995	Adaptor Plate Mounting System For Marine Jet Propulsion Unit
USA	Granted	147,933	5,460,553	11/05/1993	10/24/1995	Jet pump mounting system
USA	Granted	351,432	5,033,983	05/12/1989	07/23/1991	Marine Propulsion Device Shift Linkage
USA	Granted	1993000169537	5,490,534	12/17/1993	02/13/1996	Double solenoid valve actuator
USA	Granted	276,545	5,630,401	07/18/1994	05/20/1997	Combined Fuel Injection Pump and Nozzle
USA	Granted		5,975,058	10/13/1998	11/02/1999	Start-Assist circuit
USA	Granted	1989000351170	5,083,952	05/12/1989	01/28/1992	Marine propulsion device exhaust system
USA	Granted	1990000512826	5,080,955	04/23/1990	01/14/1992	Foam pattern assembly and method for making the same
USA	Granted	934,879	5,816,221	09/22/1997	10/06/1998	Fuel Injected Rope-Start Engine without Battery
USA	Granted	493,378	5,861,181	06/21/1995	01/19/1999	Die Casting Machines Frame modification
USA	Granted	77,007	5,398,645	06/15/1993	03/21/1995	Combustion chamber for internal combustion engine
USA	Granted	1991000734896	5,191,860	07/24/1991	03/09/1993	Marine propulsion device with closed deck cylinder block construction
USA	Granted	1991000793317	5,205,868	11/15/1991	04/27/1993	Lost foam pattern assembly apparatus
USA	Granted	376,779	5,562,511	01/23/1995	10/08/1996	Marine Apparatus
USA	Granted	08/947,249	5,899,177	10/08/1997	05/04/1999	Four cycle marine engine
USA	Granted	589,038	5,829,249	01/19/1996	11/03/1998	Internal Combustion Engine with exhaust passage and reactor
USA	Granted	175,260	5,503,576	12/29/1993	04/02/1996	Vibration Isolation Means For Outboard Motor
USA	Granted	1994000268836	5,503,577	06/29/1994	04/02/1996	Combined flywheel and timing gear cover
USA	Granted	08/945,706	6,024,071	23/12/1998	02/15/2000	Process for driving the exciting coil of an electromagnetically driven reciprocating piston pump
USA	Granted	536,721	5,524,578	09/29/1995	06/11/1996	Two-Cycle engine having improved idle relief
USA	Granted	1991000659851	5,180,925	02/22/1991	01/19/1993	Remote switching system for an electric trolling motor
USA	Granted	318,382	5,524,581	10/05/1994	06/11/1996	Outboard Motor With Improved Engine Lubrication System
USA	Granted	318,364	5,494,613	10/05/1994	02/27/1996	Carburetor With Enrichment Fuel Pump
USA	Granted	659,901	5,195,914	02/25/1991	03/23/1993	Two-stage tilt cylinder mechanism for marine propulsion stern bracket assembly
USA	Granted	1991000710070	5,134,976	06/04/1991	08/04/1992	Internal combustion engine
USA	Granted		5,911,206	07/30/1997	06/15/1999	Fuel injection update system
USA	Granted	07/841,905	5,285,839	02/26/1992	02/15/1994	Internal Combustion Engine and Method for Making Same
USA	Granted	08/737,353	6,004,127	01/11/1996	12/21/1999	Oil burner
USA	Granted	106,277	5,392,742	08/13/1993	02/28/1995	Heated Intake Manifold for Four Stroke Outboard Motor
USA	Granted		6,116,022	07/03/1996	09/12/2000	Catalytic Reactor for Marine Application

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted	127,792	5,381,763	09/28/1993	01/17/1995	Dry Head Cooling System
USA	Granted	09/482,493	6,083,063	01/13/2000	07/04/2000	Pump Jet Apparatus with articulating weed grate clean-out sy
USA	Granted	08/507,660	5,692,468	07/25/1995	12/02/1997	Fuel Injected Internal Combustion Engine With Improved Combu
USA	Granted	272,416	5,402,759	07/08/1994	04/04/1995	Cylinder Decompression Arrangement in Cam Shaft
USA	Granted	318,369	5,544,631	10/05/1994	08/13/1996	Cylinder Head Construction For Outboard Motor With Four-Stro
USA	Granted	07/974316	5,295,881	11/10/1992	03/22/1994	Marine propulsion device with coolant water passages
USA	Granted	07/918,444	5,245,960	07/22/1992	09/21/1993	Integral bracket and idler assembly
USA	Granted	08/428,338	5,544,673	04/25/1995	08/13/1996	Method and Arrangement for Assembling Fuel Injection Nozzles
USA	Granted	741,260	5,781,443	10/30/1996	07/14/1998	Apparatus for use in parts assembly
USA	Granted	541,858	5,570,662	10/10/1995	11/05/1996	Internal combustion engine with Lubricating oil Supply syste
USA	Granted	08/506,534	5,779,454	25/07/1995	07/14/1998	Combined pressure surge fuel pump and nozzle assembly
USA	Granted	127,883	5,408,827	09/28/1993	04/25/1995	Marine propulsion device with improved catalyst support arrangement
USA	Granted	235,367	5,404,846	04/29/1994	04/11/1995	Jet Pump Exhaust System
USA	Granted	389,091	5,805,450	02/15/1995	09/08/1998	Electronic Ignition Timing control and engine management sys
USA	Granted	49,155	5,345,910	04/19/1993	09/13/1994	Engine Ignition system having improved warmup advanced timing control
USA	Granted	368,660	5,522,743	01/04/1995	06/04/1996	Marine Propeller with rubber Bushing having Lobular Configur
USA	Granted	08/017,041	5,349,919	02/12/1993	09/27/1994	Recreational boat
USA	Granted	313,538	5,490,804	09/27/1994	02/13/1996	Marine Propulsion Unit having exteriorly accessible clean-ou
USA	Granted	08/295,811	5,469,828	02/09/1994	11/28/1995	Fuel Injection device according to the solid-state energy storage principle for internal combustion engines
USA	Granted	295,811	5,469,828	03/04/1993	11/28/1995	Fuel injection device according to the solid energy storage principle for internal combustion engine
USA	Granted		6,033,272	10/27/1998	03/07/2000	Marine jet drive system with debris cleanout feature
USA	Granted	507,692	5,806,504	07/25/1995	09/15/1998	Hybrid Ignition circuit for an internal combustion engine
USA	Granted	1996000587336	5,624,693	01/16/1996	04/29/1997	Molding apparatus with combined venting and flushing valve
USA	Granted	09/444,472	6,249,069	11/22/1999	06/19/2001	Output Regulation of Internal Combustion Engine Alternator b
USA	Granted	09/327,890	6,210,110	06/08/1999	04/03/2001	Propeller Having a Stress Relief Flare Arrangement
USA	Granted	09/621,382	6,346,017	07/21/2000	02/12/2002	Gear Shift Mechanism For Outboard Motor Drive Unit
USA	Granted	09/265,072	6,146,219	03/09/1999	11/14/2000	Reverse propulsion and control means for water jet powered b
USA	Granted	09/464,188	6,283,095	12/16/1999	09/04/2001	Quick Start Fuel Injection Apparatus and Method
USA	Granted	628,844	5,794,584	04/05/1996	08/18/1998	Stratified Combustion chamber for a cross-scavenged two stro
USA	Granted		6,015,365	01/28/1999	01/18/2000	Electronic gear shift assist circuitry

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted	09/251,584	6,283,107	02/17/1999	09/04/2001	Methods and Apparatus for Mesuring Atmospheric Pressure and
USA	Granted	08/926,918	5,992,401	09/10/1997	11/30/1999	Capacitive discharge ignition for an internal combustion engine
USA	Granted	09/265,075	6,132,269	03/09/1999	10/17/2000	Cantilever Jet Drive Package
USA	Granted	08/677,884	5,752,656	07/10/1996	05/19/1998	Nozzle assembly and method of fabrication thereof
USA	Granted	09/406,582	6,190,218	09/27/1999	02/20/2001	Pump jet with redirected exhaust gas through stator vane for
USA	Granted	09/179,947	6,190,219	10/27/1997	02/20/2001	Seal System for Outboard Motor Covers
USA	Granted	48,380	5,410,999	04/15/1993	05/02/1995	Two-stroke internal combustion engine with improved air intake system
USA	Granted	09/432,533	6,390,033	11/03/1999	05/21/2002	Oiling System
USA	Granted	09/547,009	6,383,042	04/11/2000	05/07/2002	Axial Twist Propeller Hub
USA	Granted	1993000098418	5,471,958	07/27/1993	12/05/1995	Internal combustion engine with lubricatingoil supply system
USA	Granted		6,012,434	07/20/1998	01/11/2000	Fuel system vapor separator for an internal combustion engine
USA	Granted	318,368	5,463,990	10/05/1994	11/07/1995	Outboard Motor With Four-Stroke Engine And Exhaust Gas Disch
USA	Granted	09/723,771	6,458,003	11/28/2000	10/01/2002	Dynamic Trim Of A Marine Propulsion System
USA	Granted	09/570,629	6,358,106	05/15/2000	03/19/2002	Vibro-Acoustic Treatment for Engine Noise Suppression
USA	Granted	354,532	5,517,962	12/13/1994	05/21/1996	Variable Timing Ignition Circuit Including Conditional Ignit
USA	Granted	09/470,960	6,238,256	12/24/1999	05/29/2001	Arrangement for Mounting propulsion unit to boat hull
USA	Granted	1994000255336	5,516,990	06/07/1994	05/14/1996	Engine incoming air silencer and mounting arrangement therefore
USA	Granted	2000000724054	6,475,044	11/28/2000	11/05/2002	Vibration isolation for mounting water jet propulsion unit to hull
USA	Granted		6,082,438	10/08/1997	07/04/2000	Method and system for the control of a vacuum valve of a vac
USA	Granted	09/566,000	6,360,161	05/04/2000	03/19/2002	Method And System For Fuel Injector Coefficient Installation
USA	Granted	09/927,713	6,482,055	08/10/2001	11/19/2002	Water Jet Propulsion Unit Having Linear Weed Grate Clean-Out
USA	Granted	09/621,073	6,368,170	07/21/2000	04/09/2002	Marine Propulsion Apparatus Having Interchangeable Parts
USA	Granted	09/250,589	5,996,548	16/02/1999	12/07/1999	Method of operating an internal combustion engine
USA	Granted	09/702,250	6,399,153	10/31/2000	06/04/2002	Method and Apparatus for air masking portion of component du
USA	Granted	966065	5,890,662	11/10/1997	04/06/1999	Solenoid with variable magnetic path
USA	Granted	507,646	5,661,895	07/25/1995	09/02/1997	Method of controlling the magnetic gap length and the initial
USA	Granted	507,646	5,661,895	07/25/1995	09/02/1997	Method of controlling the magnetic gap length and the initial stroke length of a pressure surge fuel pump
USA	Granted	09/689,375	6,386,171	10/12/2000	05/14/2002	Oil Delivery System with Oil Temperature Compensation Contro
USA	Granted		6,034,525	11/25/1998	03/07/2000	Method and Apparatus for detecting rotational direction of a
USA	Granted	08/952,704	6,158,409	03/19/1997	12/12/2000	Two-Stroke engine piston bowl configurations

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted		5,881,692	10/06/1997	03/16/1999	Ventless Fluid Reservoir
USA	Granted	09/620,457	6,379,200	07/21/2000	04/30/2002	Watercraft Fuel Supply Apparatus and Method
USA	Granted	09/694,186	6,435,146	10/23/2000	08/20/2002	An Engine Oiling Distribution System For Purging Air And Met
USA	Granted	418,568	5,718,864	04/07/1995	02/17/1998	Thermosetting resin transfer molding process
USA	Granted	681,886	5,809,776	07/29/1996	09/22/1998	Catalyc converter with radial outflow and by-pass valve
USA	Granted		5,964,626	12/04/1998	10/12/1999	Tractor Pump Jet
USA	Granted	09/723,861	6,468,122	11/28/2000	10/22/2002	Fuel Injected Engine With Cross Scavenging
USA	Granted		6,036,556	02/13/1998	03/14/2000	Outboard Motor with bleed for engine cooling jacket
USA	Granted	09/567,575	6,435,159	05/10/2000	08/20/2002	Fuel Injected Internal Combustion Engine With Reduced Squish
USA	Granted	09/468,582	6,339,271	12/21/1999	01/15/2002	Molded Flywheel Magnet Cage
USA	Granted	08/766376	5,850,764	12/12/1996	22/12/1998	Crankshaft Drive for an Internal Combustion Engine
USA	Granted	09/144,735	6,170,457	09/01/1998	01/09/2001	Fuel injection engine having fuel spray deflector
USA	Granted	09/724,821	6,422,207	11/28/2000	07/23/2002	Fuel Vapor Separator
USA	Granted	09/681,022	6,431,199	11/28/2000	08/13/2002	Vent Control System
USA	Granted	941,493	5,836,794	09/30/1997	11/17/1998	Retractable Trolling Motor Housing for Boat
USA	Granted	09/263,799	6,170,463	03/05/1999	01/09/2001	Method and Apparatus for optimizing engine operation
USA	Granted	09/419,143	6,168,485	10/15/1999	01/02/2001	Pump jet with double-walled stator housing for exhaust noise
USA	Granted	1999000391286	6,270,385	09/07/1999	08/07/2001	Pump jet rotor housingmodification for noise signature spectral control
USA	Granted	09/391,288	6,224,434	09/07/1999	05/01/2001	Pump Jet with Axial Directional Flow Control Device for Thru
USA	Granted	09/469,940	6,224,435	12/24/1999	05/01/2001	Inlet Structure for Water Jet Apparatus Mounted to Boat Hull
USA	Granted	09/472,715	6,224,436	12/24/1999	05/01/2001	Reverse Gate for Water Jet Apparatus
USA	Granted	09/932,301	6,656,004	08/17/2001	12/02/2003	Tilt-Trim Subsystem For Marine Propulsion Systems
USA	Granted	09/539,755	6,224,437	03/31/2000	05/01/2001	Trolling Motor Mount Stabilizer
USA	Granted	09/610,793	6,318,344	07/06/2000	11/20/2001	Deaded-Headed Fuel Delivery System Using A Single Fuel Pump
USA	Granted	09/631,420	6,422,255	08/03/2000	07/23/2002	Multi-Function Valve Having A Movable Seat And Needle
USA	Granted	09/248,544	6,161,525	11/02/1999	12/19/2000	Liquid gas engine
USA	Granted	941,586	5,834,874	09/30/1997	11/10/1998	Alternator with mechanically adjustable output
USA	Granted	08/847,792	5,737,976	04/28/1997	04/14/1998	Connecting Rod and Crankshaft Assembly
USA	Granted	09/604,983	6,384,332	06/28/2000	05/07/2002	Bladder Insert For Encapsulant Displacement
USA	Granted	1993000130633	6,196,524	10/01/1993	03/06/2001	Fuel enrichment system
USA	Granted	08/819,947	5,960,766	18/03/1997	10/05/1999	Method of operating an internal combustion engine
USA	Granted		5,996,734	03/11/1998	12/07/1999	Air intake silencer for a two-stroke engine
USA	Granted		5,895,844	05/29/1997	04/20/1999	Precise fuel flow measurement with modified fluid control va
USA	Granted	09/806,061	6,615,128	23/03/2001	09/02/2003	Method for electronically trimming for an injection apparatus
USA	Granted	08/676,907	6,188,561	08/07/1996	02/13/2001	Circuit for driving the excitation coil of an electromagnetically driven reciprocating pump
USA	Granted	09/607,951	6,332,422	06/30/2000	12/25/2001	Hull modification to minimize porpoising of a boat

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted	09/540,375	6,638,122	03/31/2000	10/28/2003	Electric Marine Propulsion System Employing Switched Relucta
USA	Granted	09/540,817	6,357,408	03/31/2000	03/19/2002	System and Method for Eliminating Pocket Sparking in an Inte
USA	Granted	09/547,589	6,193,572	04/11/2000	02/27/2001	Propeller Assembly Including a Cantilever Spring
USA	Granted	09/928,062	6,558,211	08/10/2001	05/06/2003	Low-Profile Steering Nozzle for Water Jet Propulsion System
USA	Granted	09/313,779	6,558,213	05/17/1999	05/06/2003	High Performance Engine Skeg
USA	Granted	09/011,1079	6,357,416	18/08/2000	03/19/2002	Process for controlling the ignition point in internal combustion engines
USA	Granted	09/430,228	6,615,160	10/29/1999	09/02/2003	Methods and Apparatus for Engine Diagnostics
USA	Granted	09/540,814	6,279,499	03/31/2000	08/28/2001	Rotational Jet-Drive Bow Thruster For a Marine Propulsion Sy
USA	Granted		6,115,666	11/23/1998	09/05/2000	Method and Apparatus for creating a profile of operating con
USA	Granted	09/681,021	6,416,367	11/28/2000	07/09/2002	Shift Linkage
USA	Granted	09/689,456	6,416,373	10/12/2000	07/09/2002	Oil System Vent With Remote Oil Reservoir
USA	Granted	09/724,370	6,425,364	11/28/2000	07/30/2002	Two-Stroke Direct Fuel Injected Marine Engine Having Anodize
USA	Granted	09/297,291	6,138,653	02/07/1999	10/31/2000	Ignition system and principle of operation
USA	Granted	2000000723983	6,428,369	11/28/2000	08/06/2002	Jet- propelled boat having through-hull housing for shaft penetration
USA	Granted	09/928,638	6,428,370	08/13/2001	08/06/2002	Water Jet Propulsion System Having Reverse Gate Optimized fo
USA	Granted	09/928,063	6,428,372	08/11/2001	08/06/2002	Water Jet Propulsion Unit with Retractable Rudder
USA	Granted	09/724,237	6,743,062	11/28/2000	06/01/2004	Braking System for Jet-Propelled Boat
USA	Granted	09/543,725	6,352,457	04/05/2000	03/05/2002	Assembly and Method for Providing Shift Control for a Marine
USA	Granted	09/629,343	6,585,224	08/01/2000	07/01/2003	Outboard Motor Rack System And Related Method Of Use
USA	Granted	08/879,526	6,026,792	06/20/1997	02/22/2000	Method of operating a fuel injected engine
USA	Granted	09/192,801	6,485,340	11/16/1998	11/26/2002	Electrically Controlled Shift and Throttle System
USA	Granted	09/468,569	6,296,535	12/21/1999	10/02/2001	Tilt-Trim Subsystem For Boats Using A Stern Drive System
USA	Granted	09/594,310	6,830,028	06/15/2000	12/14/2004	Method And Apparatus For Regulating Gas Entrainment in a Fue
USA	Granted	09/204,697	6,173,692	03/12/1998	01/16/2001	Time Delay Ignition Circuit for an Internal Combustion Engine
USA	Granted		6,044,822	11/24/1998	04/04/2000	Programmed break-in mode for two-cycle engine
USA	Granted	09/653,294	6,511,355	08/31/2000	01/28/2003	Catalyst Exhaust System
USA	Granted	2000000670730	6,644,250	09/27/2000	11/11/2003	Engine oiling system and an oil system distribution manifold, and method of use
USA	Granted	1999000456161	6,267,632	12/07/1999	07/31/2001	Water Jet propulsion apparatus with inboard mounted power source
USA	Granted	09/390,880	6,267,634	09/07/1999	07/31/2001	Propeller Flare
USA	Granted	09/723,863	6,481,426	11/28/2000	11/19/2002	Low Signature EM1/RF1 Engine
USA	Granted	09/641,325	6,398,511	08/18/2000	06/04/2002	Injector Driver Circuit With Energy Storage Apparatus
USA	Granted	09/635,262	6,672,240	08/09/2000	06/01/2004	Deck Boat (Islandia)
USA	Granted	09/722,915	6,517,395	11/27/2000	02/11/2003	Drive Train With a Single Diametral Pitch Pinion Driving Two
USA	Granted	09/193,100	6,321,592	06/16/1997	11/27/2001	Method and Apparatus For Calibrating a Position Sensor Used

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted		5,970,945	02/11/1998	10/26/1999	Barrier divided combustion chamber for fuel injection two-st
USA	Granted	09/723,513	6,457,463	11/28/2000	10/01/2002	Multi-Fuel Direct Injection Engine
USA	Granted	1999000316582	6,345,581	05/21/1999	02/12/2002	Modular pontoon boats
USA	Granted	09/559,867	6,840,095	04/26/2000	01/11/2005	Exhaust Diaphragm Assembly
USA	Granted	10/054,034	6,583,355	01/22/2002	06/24/2003	Bladder Insert For Encapsulant Displacement
USA	Granted	09/558,681	6,315,624	04/26/2000	11/13/2001	Exhaust Probe
USA	Granted	09/723,496	6,467,472	11/28/2000	10/22/2002	System And Method For Improve Sensing of Exhaust Pressure
USA	Granted	09/571,751	6,419,535	05/15/2000	07/16/2002	Outboard Engine with Acoustic Seals Installed In Motor Housi
USA	Granted	09/787,989	6,607,361	17/07/2001	08/19/2003	Pumping method and device
USA	Granted	2002000319433	6,652,332	12/13/2002	11/25/2003	Reverse gate for water jet propulsion system
USA	Granted	09/539,254	6,253,737	03/30/2000	07/03/2001	Direct Fuel Injection Using A Fuel Pump Driven By A Linear E
USA	Granted	10/615,802	6,821,170	07/10/2003	11/23/2004	Outboard Engine Cowling
USA	Granted	09/390,514	6,308,688	09/03/1999	10/30/2001	Start-Assist Circuit
USA	Granted		6,066,941	07/10/1998	05/23/2000	Switching alternator system
USA	Granted	10/005,865	6,626,381	11/08/2001	09/30/2003	A Multi-Port Fuel Injection Nozzle and System and Method Inc
USA	Granted	10/209,658	6,837,173	08/01/2002	01/04/2005	Watercraft
USA	Granted	09/591,884	6,607,410	06/09/2000	08/19/2003	Single Cylinder Tilt-Trim Assembly For Boats Using a Stern D
USA	Granted	09/201,363	6,167,875	11/30/1998	01/02/2001	Multiple spark capacitive discharge ignition system for an i
USA	Granted	2000000614186	6,491,554	07/11/2000	12/10/2002	Watercraft with steerable planing surface
USA	Granted		6,148,902	10/08/1997	11/21/2000	Multiple die casting machines with single vacuum source
USA	Granted	09/540,691	6,351,704	03/31/2000	02/26/2002	Method and Apparatus for Calibrating a Position Sensor Used
USA	Granted	09/567,539	6,682,380	05/05/2000	01/27/2004	Marine Engine Cooling Systems and Methods
USA	Granted	1999000267740	6,116,973	03/15/1999	09/12/2000	Apparatus and methods for preventing relative side to side motion between a propshaft housing and a gear case.
USA	Granted	2000000621510	6,497,594	07/21/2000	12/24/2002	Removable marine gearcase plate
USA	Granted	08/945,976	6,401,696	05/06/1998	06/11/2002	Fuel injection device for internal combustion engines
USA	Granted	09/448,368	6,604,494	11/23/1999	08/12/2003	Water-Cooled Engine Control
USA	Granted	09/657,743	6,505,595	09/08/2000	01/14/2003	Method And Apparatus For Controlling Ignition During Engine
USA	Granted	09/707,231	6,505,600	11/06/2000	01/14/2003	Direct Injection Two Stroke Engine Combustion Mapping
USA	Granted	10/095,302	6,604,505	11/03/2002	08/12/2003	Method and apparatus for controlling the ignition point in internal combustion engines
USA	Granted	09/570,096	6,405,714	05/12/2000	06/18/2002	Method And Apparatus For Calibrating And Controlling Fuel In
USA	Granted	09/539,253	6,298,822	03/30/2000	10/09/2001	Direct Fuel Injection Using Multiple Fluid Actuators Per Noz
USA	Granted	09/689,369	6,478,642	10/12/2000	11/12/2002	Oil System with Replaceable Oil Filter for Two-Cycle
USA	Granted	09/458,284	6,220,905	12/10/1999	04/24/2001	Tilt-Trim Subsystem For Marine Propulsion Systems
USA	Granted	10/063,691	6,585,545	05/08/2002	07/01/2003	Shielded Tilt-Trim Subsystem For Boats Using A Stern Drive S

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted	09/397,819	6,293,838	09/17/1999	09/25/2001	A Marine Propulsion System And Method For Controlling Engine
USA	Granted	09/969,240	6,585,546	10/02/2001	07/01/2003	Methods and Apparatus For Retaining A Propshaft Support Bear
USA	Granted	09/365,508	6,166,973	08/02/1999	12/26/2000	Memory device with multiple-bit data pre-fetch function
USA	Granted	09/524,365	6,227,919	03/14/2000	05/08/2001	Water Jet Propulsion Unit with Means for Providing Lateral T
USA	Granted	09/472,714	6,244,914	12/24/1999	06/12/2001	Shift and Steering Control System for Water jet apparatus
USA	Granted	1999000425431	6,244,917	10/22/1999	06/12/2001	Fuel delivery system for a boat
USA	Granted	09/450,602	6,303,860	11/30/1999	10/16/2001	Bladder Insert For Encapsulant Displacement
USA	Granted	09/723,860	6,484,688	11/28/2000	11/26/2002	Control Methodology For An Internal Combustion Engine That U
USA	Granted	09/672,137	6,233,943	09/27/2000	05/22/2001	Computerized System and Method for Synchronizing Engine Spee
USA	Granted	08/945,975	6,715,464	06/03/1998	04/06/2004	Fuel Injection Device for Fuel Injected Engines
USA	Granted	09/588,519	6,508,681	06/05/2000	01/21/2003	Low Friction Exhaust Bellows and Techniques for Construction
USA	Granted	09/570,642	6,484,706	05/15/2000	11/26/2002	Nonadjustable Throttle Linkage and Internal Combustion Enghn
USA	Granted	09/723,859	6,484,709	11/28/2000	11/26/2002	Valve Arrangement For Combustion Sensor
USA	Granted	10/002,824	6,554,663	11/01/2001	04/29/2003	Marine Stern Drive Two-Speed Transmission
USA	Granted	09/864,876	6,651,573	05/25/2001	11/25/2003	Personal watercraft (LRV)
USA	Granted	09/540,698	6,349,885	03/31/2000	02/26/2002	Fuel Injector For Internal Combustion Engines and Method for
USA	Granted	09/266,572	6,314,939	03/11/1999	11/13/2001	Method and Apparatus for Controlling Engine Operation
USA	Granted	09/540,818	6,422,836	03/31/2000	07/23/2002	Bi-Directionally Driven Reciprocating Fluid Pump
USA	Granted	09/538,660	6,295,972	03/30/2000	10/02/2001	Fuel Delivery Using Multiple Assemblies Per Combustion Chamb
USA	Granted	2000000538660	6,295,972	03/30/2000	10/02/2001	Fuel delivery using multiple fluid delivery assemblies per combustion chamber
USA	Granted	09/681,020	6,453,877	11/28/2000	09/24/2002	Fuel Delivery System Using Two Pressure Regulators With a Si
USA	Granted	10/207,004	6,702,629	07/30/2002	03/09/2004	Watercraft With Improved Stability
USA	Granted	2002000171460	6,648,703	06/12/2002	11/18/2003	Convertible outboard motor tiller arm and motor incorporation same
USA	Granted	10/243,903	6,695,659	09/13/2002	02/24/2004	Oil System with Replaceable Oil Filter for Two-Cycle
USA	Granted	09/613,093	6,435,923	07/10/2000	08/20/2002	Two Speed Transmission with Reverse For a Watercraft
USA	Granted	09/162,566	6,431,930	09/29/1998	08/13/2002	Electronic Control System for Boats
USA	Granted	10/269,590	6,775,607	10/11/2002	08/10/2004	Diagnostic System And Method to Temporarily Adjust Fuel Quan
USA	Granted	09/681,005	6,549,843	11/13/2000	04/15/2003	Diagnostic System And Method to Temporarily Adjust Fuel Quan
USA	Granted	10/349,944	6,820,584	01/22/2003	11/23/2004	Oil Pressure Monitoring System for Two-Stroke Engines
USA	Granted	10/000,176	6,595,814	10/23/2001	07/22/2003	Watercraft Fuel Supply Apparatus and Method
USA	Granted	09/567,365	6,679,741	05/09/2000	01/20/2004	A Propulsion System Having Means Dedicated For Driving Acces
USA	Granted	09/621,036	6,561,859	07/21/2000	05/13/2003	Marine Engine Steering Arm Yoke and Trunnion Assembly

Name Country	Status Description	Application Number	Patent Number	Application Date	Grant Date	Title
USA	Granted	09/927,719	6,776,674	08/10/2001	08/17/2004	Axial-Flow Outboard Jet Propulsion Unit
USA	Granted	09/568,838	6,834,624	05/11/2000	12/28/2004	Marine Engine Pressure Relief Valve
USA	Granted	09/723,559	6,526,938	11/28/2000	03/04/2003	Cold Start Strategy For Direct Injected Engines
USA	Granted	2000000723862	6,532,932	11/28/2000	03/18/2003	System and method for controlling an internal combustion engine
USA	Granted	10/002,380	6,477,992	10/20/2001	11/12/2002	Oiling System
USA	Granted	10/041,730	6,548,925	01/08/2002	04/15/2003	Molded Flywheel Magnet Cage
USA	Granted	09/717,626	6,609,892	11/21/2000	08/26/2003	Propeller Hub
USA	Granted	09/690,608	6,553,963	10/17/2000	04/29/2003	Throttle Assembly With Oil Seal Bushing
USA	Granted	10/206,992	6,766,759	07/30/2002	07/27/2004	Watercraft With Flexible Seating Configurations
USA	Granted	09/620,875	6,609,939	07/21/2000	08/26/2003	Marine Engine Mounting Assembly
USA	Granted	10/207,003	6,701,863	07/30/2002	03/09/2004	Watercraft With Collapsible Privacy Compartment
USA	Granted	10/349,616	6,845,744	01/22/2003	01/25/2005	A System and Method for Lubricating an Internal Combustion E
USA	Granted	10/137,617	6,647,950	05/02/2002	11/18/2003	Fuel Injected Internal Combustion Engine With Reduced Squish
USA	Granted	10/005,769	6,748,872	11/08/2001	06/15/2004	Swirl-Producing Fuel Nozzle and System and Method Incorporat
USA	Granted	10/291,884	6,694,929	11/08/2002	02/24/2004	Water-Cooled Engine Control
USA	Granted	10/092,717	6,801,849	03/08/2002	10/05/2004	Engine Diagnostic Via PDA
USA	Granted	09/714,316	6,796,859	11/16/2000	28/09/2004	Air Intake Silencer
USA	Granted	10/615,827	6,840,827	07/10/2003	01/11/2005	Outboard Engine Cowling
USA	Granted	10/249,055	6,840,828	03/12/2003	01/11/2005	Propeller Shaft Housing Retention System
USA	Granted	09/383,073	6,336,833	08/26/1999	01/08/2002	Watercraft with Steer-Responsive Throttle
USA	Granted	09/904,742	6,405,669	07/16/2001	06/18/2002	Watercraft with Steer-Response Engine Speed Controller
USA	Granted	09/961,387	6,428,371	09/25/2001	08/06/2002	Watercraft with Steer Responsive Engine Speed Controller
USA	Granted	10/355,769	6,817,912	01/30/2003	11/16/2004	Submersible Outboard Motor Having Fuel Injection