

08-30-2004



Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)

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DEPARTMENT OF COMMERCE Patent and Trademark Office

Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): PRECISION ENGINE PRODUCTS CORP. Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies) Name: THE CIT GROUP/BUSINESS CREDIT, INC., as Revolving Collateral Agent in the 2nd Priority Lien Internal Address: Street Address: 1211 Avenue of the Americas City: New York State: NY Zip: 10036 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other Execution Date: August 6, 2004

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) 5,509,385 Additional number(s) attached Yes No

2004 SEP 25 AM 9:06 OP/FINANCE

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Rhonda DeLeon Internal Address: Latham & Watkins Street Address: 650 Town Center Drive Suite 2000 City: Costa Mesa State: CA Zip: 92626

6. Total number of applications and patents involved: 67 7. Total fee (37 CFR 3.41) \$ 40.00 Enclosed Authorized to be charged to deposit account 8. Deposit account number: 50-0542

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9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Rhonda DeLeon Name of Person Signing Signature Date August 25, 2004

Total number of pages including cover sheet, attachments, and document: 22

Mail documents to be recorded with required cover sheet information to: Commissioner of Patent & Trademarks, Box Assignments Washington, D.C. 20231

08/27/2004 MGETACHE 00000056 5509385 01 IFC:8021 40.00 OP

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PATENT REEL: 015722 FRAME: 0232

PATENT SECURITY AGREEMENT

PATENT SECURITY AGREEMENT (this "**Patent Security Agreement**"), dated as of August 6, 2004, by **STANADYNE CORPORATION, STANADYNE AUTOMOTIVE HOLDING CORP.** and **PRECISION ENGINE PRODUCTS CORP.** (collectively the "**Grantors**"), in favor of **THE CIT GROUP/BUSINESS CREDIT, INC.**, as Revolving Collateral Agent, for the benefit of the holders of the Second Priority Lien Obligations (as defined below).

WITNESSETH:

WHEREAS, reference is made to that certain Pledge and Security Agreement, dated as of the date hereof (including all annexes, exhibits or schedules thereto, as from time to time amended, restated supplemented or otherwise modified from time to time, the "**Revolving Security Agreement**") among **STANADYNE CORPORATION**, a Delaware corporation (the "**Borrower**"), **STANADYNE AUTOMOTIVE HOLDING CORP.**, a Delaware corporation ("**Holdings**"), certain subsidiaries of the Borrower, and **THE CIT GROUP/BUSINESS CREDIT, INC.** ("**CIT**"), as Revolving Collateral Agent, (together with its permitted successors in such capacity, the "**Revolving Collateral Agent**") under the Revolving Credit and Guaranty Agreement, dated as of the date hereof among the Borrower, Holdings, certain subsidiaries of the Borrower, the Lenders party thereto from time to time, **GOLDMAN SACHS CREDIT PARTNERS L.P.**, as Sole Lead Arranger, Sole Bookrunner, Syndication Agent, and the Revolving Collateral Agent, and CIT as Administrative Agent (including all annexes, exhibits or schedules thereto, as from time to time amended, restated supplemented or otherwise modified from time to time, the "**Revolving Credit Agreement**").

Grantors are required to execute and deliver to the Revolving Collateral Agent this Patent Security Agreement for the benefit of the holders of the Second Priority Lien Obligations (as defined in the Revolving Credit Agreement).

NOW, THEREFORE, in consideration of the promises and mutual covenants herein contained and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantors hereby agree as follows:

1. DEFINED TERMS. All capitalized terms used but not otherwise defined herein have the meanings given to them in the Revolving Security Agreement, and, if not therein defined, in the Revolving Credit Agreement.
2. GRANT OF SECURITY INTEREST IN PATENT COLLATERAL.
 - (a) Grantors hereby grant to the Revolving Collateral Agent, for the benefit of the holders of the Second Priority Lien Obligations, a security interest in and continuing lien on all of Grantors' right, title and interest in, to and under the following, whether now owned or existing or hereafter acquired or arising and wherever located (collectively, the "**Patent Collateral**"):

(i) all United States and foreign patents and certificates of invention, or similar industrial property rights, and applications for any of the foregoing (collectively, "**Patents**"), including each patent and patent application referred to on Schedule I hereto;

(ii) all agreements (whether or not in writing) providing for the granting by or to any Grantor of any right to manufacture, use or sell any invention covered in whole or in part by any Patents (collectively, "**Patent Licenses**") including those referred to on Schedule I hereto;

(iii) all provisionals, reissues, divisions, continuations, continuations-in-part, extensions, renewals, and reexaminations thereof;

(iv) any and all past, present or future rights in to and associated with the Patents and other rights of inventions throughout the world, whether arising under federal law, state law, common law, foreign law or otherwise;

(v) all inventions and improvements described therein;

(vi) all rights to sue for past, present and future infringements thereof;

(vii) all licenses, claims, damages, and proceeds of suit arising therefrom;
and

(h) all Proceeds of the foregoing, including, without limitation, licenses, royalties, income, payments, claims, damages, and proceeds of suit.

(b) Certain Limited Exclusions. Notwithstanding anything herein to the contrary, in no event shall the security interests granted herein attach to (a) any lease, license, contract, property rights or agreement to which any Grantor is a party or any of its rights or interests thereunder if and for so long as the grant of such security interest shall constitute or result in (i) the abandonment, invalidation or unenforceability of any right, title or interest of any Grantor therein or (ii) in a breach or termination pursuant to the terms of, or a default under, any such lease, license, contract, property rights or agreement (other than to the extent that any such term is rendered ineffective pursuant to Sections 9-406, 9-407, 9-408 or 9-409 of the UCC (or any successor provision or provisions) of any relevant jurisdiction or any other applicable law (including the Bankruptcy Code) or principles of equity), provided however that such security interest shall attach immediately at such time as the condition causing such abandonment, invalidation or unenforceability shall be remedied and to the extent severable, shall attach immediately to any portion of such Lease, license, contract, property rights or agreement that does not result in any of the consequences specified in (i) or (ii) above; or (b) any of the outstanding capital stock of a Controlled Foreign Corporation in excess of 65% of the voting power of all classes of capital stock of such Controlled Foreign Corporation entitled to vote; provided that immediately upon the amendment of the Tax Code to allow the pledge of a greater percentage of the voting power of capital stock in a Controlled Foreign Corporation without resulting in repatriation of earnings, the Patent Collateral shall include, and the security interest granted by each Grantor shall attach to, such greater percentage of capital stock of each Controlled Foreign Corporation.

3. REVOLVING SECURITY AGREEMENT. The security interests granted pursuant to this Patent Security Agreement are granted in conjunction with the security interests granted to the Revolving Collateral Agent, for the benefit of the holders of the Second Priority Lien Obligations, on behalf of itself and the other Revolving Secured Parties, pursuant to the Revolving Security Agreement. Grantors hereby acknowledge and affirm that the rights and remedies of Revolving Collateral Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Revolving Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Patent Security Agreement is deemed to conflict with the Revolving Security Agreement, the provisions of the Revolving Security Agreement shall control.

4. COUNTERPARTS This Agreement may be executed in any number of counterparts, each of which when so executed and delivered shall be deemed an original, but all such counterparts together shall constitute but one and the same instrument.

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, Grantors have caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

STANADYNE CORPORATION

By: *Stephen A. Staugin*
Name: _____
Title: _____

ACKNOWLEDGMENT OF GRANTOR

STATE OF NY)
COUNTY OF NY) ss.

On this 5 day of August, 2004 before me personally appeared *Stephen Staugin* proved to me on the basis of satisfactory evidence to be the person who executed the foregoing instrument on behalf of the Grantors, who being by me duly sworn did depose and say that he is an authorized officer of said corporation, that the said instrument was signed on behalf of said corporation as authorized by its Board of Directors and that he acknowledged said instrument to be the free act and deed of said corporation.

Audrey Leff
Notary Public

{seal}

AUDREY LEFF
Notary Public, State of New York
No. 41-4986614
Qualified in Queens County
Certificate Filed in Queens County
Commission Expires Sept. 23, 2005

[SIGNATURES CONTINUED ON NEXT PAGE]

IN WITNESS WHEREOF, Grantors have caused this Patent Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

STANADYNE AUTOMOTIVE HOLDING CORP.

By: Stephen A. Laugin
Name: _____
Title: _____

ACKNOWLEDGMENT OF GRANTOR

STATE OF NY)
COUNTY OF NY) ss.

On this 5 day of August, 2004 before me personally appeared Stephen Laugin proved to me on the basis of satisfactory evidence to be the person who executed the foregoing instrument on behalf of the Grantors, who being by me duly sworn did depose and say that he is an authorized officer of said corporation, that the said instrument was signed on behalf of said corporation as authorized by its Board of Directors and that he acknowledged said instrument to be the free act and deed of said corporation.

Audrey Leff

Notary Public

AUDREY LEFF
Notary Public, State of New York
No. 41-4986614
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{seal}

[SIGNATURES CONTINUED ON NEXT PAGE]

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PRECISION ENGINE PRODUCTS CORP.

By:

Stephen A. Saugin
Name: _____
Title: _____

ACKNOWLEDGMENT OF GRANTOR

STATE OF NY)
COUNTY OF NY)

ss.

On this 5 day of August, 2004 before me personally appeared Stephen Saugin proved to me on the basis of satisfactory evidence to be the person who executed the foregoing instrument on behalf of the Grantors, who being by me duly sworn did depose and say that he is an authorized officer of said corporation, that the said instrument was signed on behalf of said corporation as authorized by its Board of Directors and that he acknowledged said instrument to be the free act and deed of said corporation.

Audrey Leff

Notary Public

AUDREY LEFF
Notary Public, State of New York
No. 41-4886614
Qualified in Queens County
Certificate Filed in Queens County
Commission Expires Sept. 23, 2005

{seal}

[SIGNATURES CONTINUED ON NEXT PAGE]

ACCEPTED AND ACKNOWLEDGED BY:

THE CIT GROUP/BUSINESS CREDIT, INC.
as Revolving Collateral Agent

By: James A. Brennan Jr.
Name: James A. Brennan, Jr.
Title: Vice President

SCHEDULE I
to
PATENT SECURITY AGREEMENT
PATENT APPLICATIONS, ISSUED PATENTS AND LICENSES

(see attached)

U.S. PATENT SCHEDULE

Stanadyne Corporation (f/k/a Stanadyne Automotive Corporation)

Issued Patents

Title	Application No. Filing Date	Patent No. Issue Date
A fuel pump arrangement having cam driven low and high pressure reciprocating plunger pump unit	08/459,032 06/02/95	5,688,110 11/18/97
Accumulator injector	06/704,033 02/21/85	4,605,166 08/12/86
Aneroid control for fuel injection pump	10/010,232 12/07/01	6,431,143 08/13/02
Base/cartridge location and key system for fuel filter assembly	08/700,792 08/21/96	5,837,137 11/17/98
Common rail fuel supply system with high pressure accumulator	10/277,655 10/21/02	6,637,408 10/28/03
Disposal plug for filter cartridge	07/926,948 08/10/92	5,271,836 12/21/93
Distributorship type fuel injection pump	08/131,532 10/04/93	RE34,956 05/30/95
Diveter assembly for fuel filter	09/057,919 04/09/98	6,007,711 12/28/99
Dry change fuel filter system	08/105,210 08/10/93	5,312,546 05/17/94
Duration control of common rail fuel injector	08/995,484 12/22/97	5,988,142 11/23/99
Ecological fuel filter cartridge and element	09/785,789 02/16/01	6,471,070 10/29/02
Electronic unit injector	07/115,845 11/02/87	4,811,715 03/14/89
Filter assembly with conformal cartridge support system	08/918,608 08/22/97	6,048,455 04/11/00
Filter cartridge	29/118,219 02/04/00	D435,631 12/26/00
Filter cartridge	29/168,002 09/25/02	D479,300 09/02/03
Filter cartridge	29/179,090 04/03/03	D484,568 12/30/03
Filter cartridge retention system	09/356,578 07/19/99	6,187,188 02/13/01
Filter cartridge with grommet spring	09/357,049 07/19/99	6,364,121 04/02/02
Filter cartridge with grommet spring	10/078,033 02/19/02	6,755,308 06/29/04
Filter system base module with self-locking cartridge retainer	09/785,675 02/16/01	6,500,335 12/31/02

Title	Application No. Filing Date	Patent No. Issue Date
Fluid delivery line geometry optimization	10/244,873 09/17/02	6,606,977 08/19/03
Fluid pump with split plungers	08/928,312 09/12/97	5,980,214 11/09/99
Fuel filter	07/372,645 06/28/89	4,976,852 12/11/90
Fuel filter	07/572,040 08/23/90	5,084,170 01/28/92
Fuel filter and cartridge assembly	07/404,849 09/08/89	5,017,285 05/21/91
Fuel filter assembly with modular drain bowl	07/748,775 08/22/91	5,236,579 08/17/93
Fuel filter cartridge	29/002,743 12/15/92	D356,852 03/28/95
Fuel filter cartridge	08/683,182 07/18/96	5,766,463 06/16/98
Fuel filter key system	07/745,870 08/16/91	5,186,829 02/16/93
Fuel filter master module with optional diverter capability	08/315,910 09/30/94	5,614,091 03/25/97
Fuel filter retention system	07/746,693 08/16/91	5,203,994 04/20/93
Fuel filter system with water bleed and water trap	09/463,809 01/19/00	6,444,121 09/03/02
Fuel filter with cold start circuit	08/881,762 06/25/97	5,887,573 03/30/99
Fuel filter with hand primer	08/889,831 07/10/97	6,019,890 02/01/00
Fuel filter with improved hand primer	08/363,417 12/23/94	5,578,221 11/26/96
Fuel filter with internal vent	08/155,101 11/19/93	5,413,711 05/09/95
Fuel filter with internal vent	08/316,216 09/30/94	5,525,225 06/11/96
Fuel filter with spring-loaded retention system	07/997,289 12/23/92	5,302,284 04/12/94
Fuel injection pump with spill and line pressure regulating systems	08/640,239 04/30/96	5,685,275 11/11/97
Fuel injector with at least one moveable needle-guide	09/067,299 04/27/98	6,062,498 05/16/00
Fuel injector method and apparatus	08/011,407 01/29/93	RE35,101 11/28/95
Fuel pump having dual profile cam ring for driving low and high pressure reciprocating plungers	08/883,448 06/26/97	5,888,054 03/30/99

Title	Application No. Filing Date	Patent No. Issue Date
Fuel system for rotary distributor fuel injection pump	07/730,676 07/16/91	5,215,060 06/01/93
Full authority rail pressure-reduction valve	09/163,261 09/29/98	6,116,217 09/12/00
High capacity supply pump with simultaneous directly actuated plungers	09/623,124 08/25/00	6,358,024 03/19/02
Hole type fuel injector and injection method	08/071,526 06/02/93	RE34,999 07/25/95
Hybrid control method for fuel pump using intermittent recirculation at low and high engine speeds	10/187,823 07/02/02	6,694,950 02/24/04
Hydraulic pressure supply pump with simultaneous directly actuated plungers	08/959,836 10/29/97	6,027,312 02/22/00
Hydraulic pump	06/762,264 08/05/85	4,662,825 05/05/87
Intensified high-pressure common-rail supply pump	09/243,044 02/02/99	6,113,361 09/05/00
Key system for ecological filter cartridge and element	09/784,956 02/16/01	6,506,302 01/14/03
Key system for filter assembly	07/480,032 02/14/90	5,035,797 07/30/91
Key track system	10/090,921 03/05/02	6,740,234 05/25/04
Lash adjuster with locking balls deactivation	10/386,784 03/12/03	6,732,687 05/11/04
Lift pump for filter module	08/634,812 04/19/96	5,915,926 06/29/99
Lift pump guard	09/393,644 09/10/99	6,227,806 05/08/01
Method and apparatus for regulating fuel injection timing and quantity	07/204,170 06/08/88	4,884,549 12/05/89
Method of assembling a fuel nozzle assembly	07/061,711 06/15/87	4,790,055 12/13/88
Modular base for a filter cartridge and method of manufacturing therefore	09/805,757 03/13/01	6,485,643 11/26/02
Module for filter assembly base	08/166,226 12/13/93	5,484,527 01/16/96
Primer system for filter assembly	08/974,773 11/20/97	5,868,931 02/09/99
Reverse flow cartridge	08/888,222 07/03/97	5,985,144 11/16/99
Rotary distributor type fuel injection pump	07/960,967 10/14/92	5,228,844 07/20/93
Self-regulating gasoline direct injection system	09/638,286 08/14/00	6,494,182 12/17/02

Title	Application No. Filing Date	Patent No. Issue Date
Sensing and control methods and apparatus for common rail injectors	09/065,895 04/23/98	5,890,653 04/06/99
Servo controlled common rail injector	08/873,279 06/11/97	5,947,382 09/07/99
Servo controlled common rail injector	09/247,712 02/09/99	6,024,298 02/15/00
Servo controlled timing advance for unit pump or unit injector	09/992,943 11/06/01	6,619,186 09/16/03
Shaft seal with pressure equalizing shuttle	09/520,521 03/08/00	6,261,069 07/17/01
Single stage fuel filter with seal control air purge	08/316,508 09/30/94	5,489,384 02/06/96
Snap-in connection for pumping plunger sliding shoes	09/339,370 06/24/99	6,183,212 02/06/01
Supply pump for gasoline common rail	09/342,566 06/29/99	6,345,609 02/12/02
Timing advance piston for unit pump or unit injector and method therefore	09/638,758 08/14/00	6,439,204 08/27/02
Two-stage pressure limiting valve	10/034,917 12/20/01	6,446,613 09/10/02
Two-stage pressure relief valve	09/499,106 02/04/00	6,125,822 10/03/00
Variable output pump for gasoline direct injection	09/913,661 12/05/01	6,422,203 07/23/02
Water baffle for filter cartridge	08/887,775 07/03/97	5,938,921 08/17/99

Stanadyne Corporation (f/k/a Stanadyne Automotive Corporation)
Patent Applications

Title	Application No. Filing Date	Patent No. Issue Date
Base receptacle for filter cartridge incorporating a peripheral compatibility matrix	10/284,686 10/31/02	pending
Base receptacle with fixed retainer for filter cartridge incorporating a peripheral compatibility matrix	10/284,695 10/31/02	pending
Combined integrated injection line and injection nozzle	10/489,105 03/09/04	pending
Combined integrated injection line and injection nozzle	29/183,908 06/17/03	pending
Compact fuel injection nozzle	10/110,355 04/10/02	pending
Drain valve insert	60/545,030 02/17/04	pending

Title	Application No. Filing Date	Patent No. Issue Date
Dual port unit pump, injector and engine efficiency	10/475,255 10/17/03	pending
Eccentric interference retention system for a filter cartridge	10/285,208 10/31/02	pending
Filter cartridge incorporating a peripheral compatibility matrix	10/284,694 10/31/02	pending
Flow intensifier for cold starting gasoline direct injection engine	10/344,837 07/10/03	pending
Fuel circuit and circulation method for fuel	08/667,644 06/21/96	pending
Fuel injector with hydraulic flow control	10/813,802 03/30/04	pending
Fuel tank mounted, motorized high pressure gasoline pump	10/332,030 01/03/03	pending
Guided shoe for radial piston pump	10/217,831 08/12/02	pending
Hybrid demand control for hydraulic pump	10/477,246 11/10/03	pending
Magnetically coupled fuel injector pump	10/344,588 02/13/03	pending
Multi-configurable filter base module and manufacturing method therefore	09/785,785 02/16/01	pending
Radial piston pump with eccentrically driven rolling	10/857,313 05/28/04	pending
Self-regulating switch for split rail gasoline fuel supply system	10/344,589 07/15/03	pending
Valve deactivator assembly	10/824,813 04/15/04	pending

Precision Engine Products Corp.

Title	Application No. Filing Date	Patent No. Issue Date
Hydraulic lash adjuster metering valve	08/490,624 06/15/95	5,509,385 04/23/96

FOREIGN PATENT SCHEDULE

Stanadyne Corporation (f/k/a Stanadyne Automotive Corporation)

Country	Title	Registration No. (Application No.)
EPO	Base/cartridge location and key system for fuel filter assembly [France, Great Britain, Italy, Spain]	EP0826406
EPO	Cartridge filter assembly with hand primer [France, Great Britain, Italy, Spain]	EP0890385
EPO	Combined integrated injection line and injection nozzle	(03745156.4)
EPO	Compact fuel injection nozzle	EP1234113 (00980444.4)
EPO	Disposal plug for filter cartridge [France, Great Britain, Italy]	EP0583149
EPO	Distributor type fuel injection pump [Great Britain]	EP0548000
EPO	Dry change fuel filter system [France, Great Britain, Italy]	EP0529782
EPO	Dual port unit pump, injector, and engine efficiency methods	EP1390617 (EP02723977.1)
EPO	Duration control of common rail fuel injector [France, Great Britain]	EP1042603
EPO	Ecological fuel filter cartridge and assembly	EP1125621
EPO	Filter assembly with conformal cartridge support structure [France, Great Britain, Italy, Spain]	EP0826407
EPO	Filter assembly with conformal cartridge support structure	EP0826407
EPO	Filter cartridge with grommet spring	(99309038.0)
EPO	Fuel filter [France, Great Britain, Italy, Spain]	EP0405447
EPO	Fuel filter [France, Great Britain, Italy]	EP0593434
EPO	Fuel filter assembly with modular drain bowl [France, Great Britain, Italy]	EP0529286
EPO	Fuel filter cartridge	EP1070529
EPO	Fuel filter key system [France, Great Britain, Italy]	EP0532161
EPO	Fuel filter master module with optional diverter capability [France, Great Britain, Italy, Spain]	EP0658362
EPO	Fuel filter retention system [France, Great Britain, Italy, Spain]	EP0528528

Country	Title	Registration No. (Application No.)
EPO	Fuel filter system with water bleed and water trap [France, Germany, Great Britain, Italy, Spain]	EP1144074
EPO	Fuel filter with cold start circuit [France, Germany, Great Britain, Italy, Spain]	EP0887542
EPO	Fuel filter with internal vent [France, Great Britain, Italy]	EP0575196
EPO	Fuel filter with internal vent [France, Great Britain, Italy, Spain]	EP0662337
EPO	Fuel system for rotary distributor fuel injection pump [Great Britain]	EP0524132
EPO	Fuel tank mounted, motorized high pressure gasoline pump	EP1309787 (01963925.1)
EPO	Hybrid control method for fuel pump using intermittent recirculation at low and high engine speeds	EP1427935 (02798196.8)
EPO	Hybrid demand control for hydraulic pump	EP1425506 (02770488.1)
EPO	Hydraulic pressure supply pump with simultaneous directly actuated plungers	EP0956445 (98956232.7)
EPO	Key system for ecological filter cartridge and element	EP1126159
EPO	Key system for filter assembly	EP0442365
EPO	Method and apparatus for regulating fuel injection timing and quantity [Great Britain]	EP0244340
EPO	Module for filter assembly base [France, Great Britain, Italy, Spain]	EP0657201
EPO	Multi-configurable cartridge filter base and manufacturing method thereof	EP1127602
EPO	Reverse flow filter cartridge and method of filtering fuel [France, Germany, Great Britain, Italy, Spain]	EP0889229
EPO	Servo controlled common rail injector [France, Great Britain]	EP0892171
EPO	Single stage fuel filter with seal control air purge [France, Great Britain, Italy, Spain]	EP0657198
EPO	Supply pump for gasoline common rail	(99907172.3)
EPO	Supply pump for gasoline common rail	EP0979353
EPO	Timing advance piston for a fuel injection pump	EP1218635 (00955610.1)

Country	Title	Registration No. (Application No.)
EPO	Variable output pump for gasoline direct injection	EP1153215
EPO	Variable output pump for gasoline direct injection	(00913508.8)
PCT	Eccentric interference retention system for a filter cartridge	(PCT/US2003/033345)
PCT	Filter cartridge incorporating a peripheral compatibility matrix	(PCT/US2003/033384)
PCT	Guided shoe for radial piston pump	(PCT/US2003/020663)
PCT	Integrated injection line and injection nozzle	(PCT/US03/08572)
PCT	Keyed connection between filter base and filter cartridge	(PCT/US2003/033350)
PCT	Keyed filter base for filter cartridge incorporating a corresponding keyed peripheral matrix	(PCT/US2003/033467)
PCT	System for calibrating an integrated injection nozzle and injection pump	(PCT/US03/08550)
Brazil	Supply pump for gasoline common rail	(PI 9904868-0)
Brazil	Variable output pump for gasoline direct injection	(PI 0008300-3)
Canada	Fuel injection pump with plunger stroke control	1,227,700
China	Fuel injection pump with auxiliary control system	95120240.5
China	Hydraulic pressure supply pump with simultaneous	ZL98801615
China	Servo controlled timing advance for unit pump or unit	(1137894.8)
China	Snap-in connection for pumping plunger sliding shoes	(00806350.8)
France	Disposable liquid filter cartridge	69,401
France	Filter cartridge	601,731 to 601,754
France	Fluid delivery line geometry optimization	310,831
France	Lash adjuster with locking balls deactivation	303,094
France	Hydraulic lash adjuster	FR2837871

Country	Title	Registration No (Application No.)
Germany	Base/cartridge location and key system for fuel	DE69721154.1-08
Germany	Canister type fuel filter	DE69030270
Germany	Disposal plug for filter cartridge	DE69311647.1
Germany	Dry change fuel filter system	DE69215795.6
Germany	Duration control of common rail fuel injector	DE69813300.5-08
Germany	Filter assembly with conformal cartridge support	DE69704315.0-08
Germany	Filter cartridge	40007533
Germany	Filter cartridge retention system	DE69917016.8-08
Germany	Flow intensifier for cold starting gasoline direct injection	DE10196642.3
Germany	Fuel filter	DE69021792.7
Germany	Fuel filter assembly with modular drain bowl	DE69215288.1
Germany	Fuel filter key system	DE69214073
Germany	Fuel filter master module with optional diverter	DE69414814.8
Germany	Fuel filter retention system	DE69216322
Germany	Fuel filter with cold start circuit	DE69801401
Germany	Fuel filter with internal vent	DE69405205.1
Germany	Fuel filter with internal vent	DE63920874
Germany	Key system for filter assembly	DE69105539.4
Germany	Lash adjuster with locking balls deactivation	(10310776.2)
Germany	Magnetically coupled fuel injector pump	(10196508.7)
Germany	Module for filter assembly base	DE69405693.6
Germany	Reverse hand primer	(29825029.2)

Country	Title	Registration No. (Application No.)
Germany	Ruckspulfilterpatrone und Verfahren zum filtrieren von kraftstoff	DE69803146
Germany	Self-regulating switch for split rail gasoline fuel	(10196507.9)
Germany	Servo controlled common rail injector	DE69812001.9
Germany	Servo controlled common rail injector	(10154764.1)
Germany	Single stage fuel filter with seal control air purge	DE69405358.9
India	Calibration system for electrically controlled fuel .	188,467
India	Calibration system for electrically controlled fuel .	(736/Del/2001)
India	Calibration system for electrically controlled fuel .	(737/Del/2001)
India	Combined integrated injection line and injection nozzle	(537/Delnp/2004)
India	Compact fuel injection nozzle	(IN/PCT/2002/00510/Mum)
India	Dual port unit pump, injector, and engine efficiency	(1761/Delnp/2003)
India	Ecological fuel filter cartridge and element	(146/Del/2001)
India	Filter cartridge	183,129
India	Filter cartridge retention system	(787/BOM/99)
India	Filter cartridge with grommet spring	(789/BOM/99)
India	Filter system base module with self-locking cartridge	(149/Del/2001)
India	Fuel system for rotary distributor fuel injection pump	185,561
India	Fuel system for rotary distributor fuel injection pump	(550/Del/99)
India	Fuel system for rotary distributor fuel injection pump	(551/Del/99)
India	Key system for ecological filter cartridge and element	(148/Del/2001)
India	Modular base for a filter cartridge and method of	(751/Mum/2001)
India	Multi-configurable filter base module	(147/Del/2001)

Country	Title	Registration No (Application No.)
India	Reciprocating fuel pump with intermittent transfer pump	(1474/Del/95)
India	Rotary distributor type fuel injection pump	(523/Del/02)
India	Rotary distributor type fuel injection pump	(756/Del/94)
India	Self-regulating gasoline direct injection system	(10196510.9)
India	Servo controlled timing advance for unit pump or unit	(1058/Mum/2001)
India	Timing advance piston for unit pump or unit injector	(IN/PCT/2002/00070/Mum)
India	Two-stage pressure limiting valve	(720/Mum/2002)
Italy	Filter cartridge	81,213
Japan	Base/cartridge location and key system for fuel	(9-260794)
Japan	Canister type fuel filter	3,119,484
Japan	Disposal plug for filter cartridge	(218089/93)
Japan	Dry change fuel filter system	3,337,147
Japan	Duration control of common rail fuel injector	(525679/2000)
Japan	Filter assembly with conformal cartridge support	(9-262632)
Japan	Flow intensifier for cold starting gasoline direct	(2002-519794)
Japan	Fluid pump with split plungers	(517888/99)
Japan	Fuel filter assembly with modular drain bowl	3,358,739
Japan	Fuel filter key system	3,369,601
Japan	Fuel filter retention system	3,337,146
Japan	Fuel filter with internal vent	3,373,597
Japan	Fuel filter with internal vent	(332484/94)
Japan	Fuel injector with at least one moveable needle-guide	(11-152422)

Country	Title	Registration No. (Application No.)
Japan	Fuel system for rotary distributor fuel injection pump	3,353,916
Japan	Hybrid control method for fuel pump using	(2003-527263)
Japan	Hybrid demand control for hydraulic pump	(2003-527271)
Japan	Hydraulic pressure supply pump with multiple	(537137/99)
Japan	Hydraulic pressure supply pump with simultaneous	(524790/99)
Japan	Key system for filter assembly	3,072,436
Japan	Lash adjuster with locking balls deactivation	(2003-67758)
Japan	Magnetically coupled fuel injector pump	(2002-519787)
Japan	Self-regulating gasoline direct injection system	(2002-519793)
Japan	Self-regulating switch for split rail gasoline fuel	(2002-519795)
Japan	Sensing and control methods and apparatus for common	(11-152423)
Japan	Shaft seal with pressure equalizing shuttle	(2000-230375)
Japan	Single stage fuel filter with seal control air purge	(332485/94)
Japan	Snap-in connection for pumping plunger sliding shoes	(2000-600002)
Japan	Supply pump for gasoline common rail	(11-543718)
Japan	Variable output pump for gasoline direct injection	(2000-599994)
South Korea	Canister type fuel filter	157,996
South Korea	Key system for filter assembly	176,251
South Korea	Rotary distributor type fuel injection pump	318,688
South Korea	Snap-in connection for pumping plunger sliding shoes	(2001-7010366)
South Korea	Variable output pump for gasoline direct injection	(2001-7010370)
Mexico	Fluid delivery line geometry optimization	(PA/A/2003/008353)

Country	Title	Registration No. (Application No.)
Mexico	Fuel injection pump	196,735
Mexico	Fuel tank mounted, motorized high pressure gasoline pump	(PA/A/2003/001363)
Spain	Canister type fuel filter	2,100,175
Spain	Disposal plug for filter cartridge	2,102,603
Spain	Dry change fuel filter system	2,095,410
Spain	Filter cartridge	149,081
Spain	Fuel filter assembly with modular drain bowl	2,095,361
Spain	Fuel filter key system	2,092,048
United Kingdom	Filter cartridge	D2,094,653
United Kingdom	Filter cartridge	D2,104,268
United Kingdom	Filter cartridge	D2,104,269
United Kingdom	Filter cartridge	D2,104,270
United Kingdom	Filter cartridge	D2,104,271
United Kingdom	High capacity supply pump with simultaneous directly actuated plungers	GB2351126
United Kingdom	Servo controlled timing advance for unit pump or unit injector	GB2370885 (0127020.6)