Docket No.: **K0530945**

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp.5/31/2002)
P08A/REV03

07-30-2003

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Tab settings ➔ ➔ ➔ ▼ ▼ ▼ ▼ ▼

To the Honorable Director of the United States: 102511115 :he attached original documents or copy thereof.

1. Name of conveying party(ies):
3062957 Nova Scotia Limited

OIPE JUL 24 2003 PATENT & TRADEMARK OFFICE

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: **Teleflex GFI Control Systems L.P.**

Address: **100 Hollinger Crescent**

City: **Kitchener** State/Prov.: **ON**

Country: **Canada** ZIP: **N2K 2Z3**

Additional name(s) & address(es) ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger

☐ Security Agreement ☐ Change of Name

☐ Other

Execution Date: **June 6, 2002**

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.	Filing date	B. Patent No.(s)
10/125,595	April 19, 2002	

07/30/2003 GTON11 00000090 501613 10125595
01 FC:8021 40.00 DA

Additional numbers ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Valentine A. Cottrill**

Registration No. **50,187**

Address: **50 Queen Street North**

Suite 1020

City: **Kitchener** State/Prov.: **ON**

Country: **Canada** ZIP: **N2H 6M2**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....$ **40.00**

☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☒ Authorized to be charged to deposit account

8. Deposit account number:

501613

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Valentine A. Cottrill	V. Cottrill	July 22, 2003
Name of Person Signing	Signature	Date

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment Recordation Services
Director of the United States Patent and Trademark Office
P.O. Box 1450, Alexandria, VA 22313-1450

ASSIGNMENT

WHEREAS:

A. 3062957 Nova Scotia Limited ("Assignor"), having a place of business at Suite 800, 1959 Upper Water Street, Halifax, Nova Scotia, Canada, B3J 3J5, is the sole owner of all right, title and interest in and to the patents and patent applications described in Schedule "A" attached hereto and the inventions described therein.

B. Teleflex GFI Control Systems L.P. ("Assignee"), having a place of business at 100 Hollinger Crescent, Kitchener, Ontario, Canada, N2K 2Z3, wishes to acquire the exclusive right, title and interest in and to the said inventions, and in and to any Letters Patent that may be obtained therefor, and in and to said applications.

NOW THEREFORE, in consideration of One Dollar ($1.00) and other good and valuable consideration, now paid by the Assignor to the Assignee (the receipt and sufficiency of which is hereby acknowledged), the Assignor hereby undertakes and agrees as follows:

1. The Assignor hereby sells, assigns and transfers to the Assignee, its successors and assigns all of the exclusive right, title and interest in and to the said inventions, and any improvements related thereto, and any and all patent applications, divisionals, continuations or continuations-in-part or requests for continued examination or extensions which have been filed or may be filed relating to the inventions and to any improvements related thereto in Canada, the United States, and throughout the world and to any and all Letters Patent, divisionals, reissues or reexaminations, which have been granted or may be granted therefor, including without limiting the generality of the foregoing, the patents and patent applications identified in Schedule "A", the same to be held and enjoyed by the Assignee for its use and enjoyment and that of its successors, assigns or other legal representatives as the same would have been held and enjoyed by the Assignor if this assignment and sale had not been made.

2. The Assignor shall with reasonable diligence do all such things and provide all such reasonable assurances as may be required to effect the sale, assignment and transfer contemplated hereby, and the Assignor shall provide such further documents or instruments required by the Assignee as may be reasonably necessary or desirable to effect the purpose of this Assignment and carry out its provisions. For greater certainty, the Assignor shall promptly prepare, execute and deliver to the Assignee all such documents and instruments, in form suitable for recording at the applicable Patent Office or other appropriate governmental office, required to record or register the Assignee as owner of the inventions, patents and patent applications described above and take such further action as the Assignee may reasonably request of the Assignor from time to time to perfect the transfer of patents and patent applications provided hereunder.

3. The Assignor hereby authorizes and gives consent to the Assignee to take all necessary actions to effect recordal of this document at the applicable Patent Office.

SIGNED at Lunenburg, PA as of the 6th day of June, 2002.

3062957 NOVA SCOTIA LIMITED

Per: _____

Name: Thomas M. Byrne

Title: Treasurer + Director

::ODMA\PCDOCS\WAT_LAW\75806\1

STATEMENT BY WITNESS NO. 1

I, Michele M. Willoughby, whose full post office address is 155 S. Limerick Rd. Limerick, PA 19468, was personally present and did see Thomas M. Byrne who is known to me, execute the above Assignment.

Michele M. Willoughby
Signature of Witness

STATEMENT BY WITNESS NO. 2

I, Susan A. Stauch, whose full post office address is 155 S. Limerick Rd., Limerick, PA 19468, was personally present and did see Thomas M. Byrne who is known to me, execute the above Assignment.

Susan A. Stauch
Signature of Witness

::ODMA\PCDOCS\WAT_LAW\76124\1

NOTARIAL CERTIFICATION

1. I, Sherrie L. Hedrick, a subject of the United States of America and a Notary Public duly admitted,

DO HEREBY CERTIFY AND ATTEST

2. THAT on March 11, 2003 before me personally appeared:

1. Thomas M. Byrne (Name of person signing on behalf of Assignor)
2. Michele M. Willoughby (Witness No. 1)
3. Susan A. Stouch (Witness No. 2)

to me known and known to me to be of legal capacity and acknowledged their signatures appearing on the foregoing instruments and ratified such signatures and instruments;

3. THAT Thomas M. Byrne, who signed the attached Assignment on behalf of 3062957 Nova Scotia Limited and who had the necessary legal power pursuant to the authority granted to him by the Board of Directors of said company to bind the Assignor;

4. THAT the present certifications are in accordance with the provisions of the applicable laws of the United States of America.

IN WITNESS THEREOF I have hereunto set my Hand and Seal of Office in the City of Limerick, PA, this March 11, 2003.

Sherrie L. Hedrick
NOTARY PUBLIC

Notarial Seal
Sherrie L. Hedrick, Notary Public
Limerick Twp., Montgomery County
My Commission Expires Dec. 12, 2005
Member, Pennsylvania Association Of Notaries

::ODMA\PCDOCS\WAT_LAW\76125\1

SCHEDULE "A"

GFI PATENT SUMMARY – TANK VALVES

GOWLINGS FILE #	TITLE	COUNTRY	FILING DATE	SERIAL NO.	ISSUED DATE	REG. NO.
(A) Mirada/Wass In-Tank Solenoid Valves						
T8466197US	Crash Proof Solenoid Controlled Valve with Manual Override Valve	US	1992/05/08	08/880,568	1993/03/16	5,193,580
T8466198US	Crash Proof Solenoid Controlled Valve for Natural Gas Powered Vehicles	US	1991/05/30	08/707,584	1993/03/30	5,197,710
T8466229US	Crash Proof Solenoid Controlled Valve with Manual Override Valve	US	1993/03/29	08/039,935	1994/08/30	5,341,844
T8466228US	Crash Proof Solenoid Controlled Valve with Manual Override Valve	US	1994/06/27	08/266,960	1995/10/17	5,458,151
(B) Harsco In-Tank Solenoid Valves						
K8000128IT	Crashworthy Solenoid Actuated CNG Valve	Italy	1995/01/31	95300588.1	1999/09/22	668 468 B1
K8000128SE	Crashworthy Solenoid Actuated CNG Valve	Sweden	1995/01/31	95300588.1	1999/09/22	668 468 B1
K8000128NL	Crashworthy Solenoid Actuated CNG Valve	Netherlands	1995/01/31	95300588.1	1999/09/22	668 468 B1
K8000128FR	Crashworthy Solenoid Actuated CNG Valve	France	1995/01/31	95300588.1	1999/09/22	667 468 B1
K8000128GB	Crashworthy Solenoid Actuated CNG Valve	Great Britain	1995/01/31	95300588.1	1999/09/22	668 468 B1
K8000128ES	Crashworthy Solenoid Actuated CNG Valve	Spain	1995/01/31	2141298	1999/09/22	668 468 B1
K8000128BE	Crashworthy Solenoid Actuated CNG Valve	Belgium	1995/01/31	95300588.1	1999/09/22	668 468 B1
K8000128US1	Crashworthy Solenoid Actuated CNG Valve	US	1994/02/22	08/200,075	1995/09/26	5,452,738
K8000128US2	Crashworthy Solenoid Actuated CNG Valve	US	1995/06/02	08/459,365	1996/10/08	5,562,117
K8000128AR	Crashworthy Solenoid Actuated CNG Valve	Argentina	1995/02/22	331118	1999/12/16	253859
K8000128AU	Crashworthy Solenoid Actuated CNG Valve	Australia	1995/01/27	11410/95	1997/02/04	672937
K8000128CA	Crashworthy Solenoid Actuated CNG Valve	Canada	1995/02/14	2,142,514	1998/12/29	2,142,514
K8000128JP	Crashworthy Solenoid Actuated CNG Valve	Japan	1995/02/21	7-31928/95	1998/03/13	2757978
K8000128MX	Crashworthy Solenoid Actuated CNG Valve	Mexico	1995/02/21	951053	2000/05/08	196,309
K8000128ZA	Crashworthy Solenoid Actuated CNG Valve	South Africa	1995/01/25	95/0596	1995/12/27	95/0596
K8000128KR	Crashworthy Solenoid Actuated CNG Valve	Korea	1995/02/15	95-2775	1998/12/01	159425
K8000128DE	Crashworthy Solenoid Actuated CNG Valve	Germany	1995/01/31	95300588.1	1999/09/22	668 468 B1
K80000128TW	Crashworthy Solenoid Actuated CNG Valve	Taiwan	1995/02/27	84101860	1996/08/11	MI-079679
(C) GFI In-Tank Solenoid Valve						
T8000137US	Crashproof Instant-on Tank Valve	US	2001/06/22	09/886,127		
T8000137WO	Crashproof Instant-on Tank Valve	PCT	2001/06/22	PCT/CA01/00903		
T8000137CA1	Crashproof Instant-on Tank Valve	Canada	2001/06/22	2,414,238		
T8000137EP	Crashproof Instant-on Tank Valve	Europe	2001/06/22	01 94 9133.1		
T8000137JP	Crashproof Instant-on Tank Valve	Japan	2001/06/22	PCT/CA01/00903		
T8000137KR	Crashproof Instant-on Tank Valve	Korea	2001/06/22	10-2002-7017551		

GFI PATENT SUMMARY – TANK VALVES

GOWLINGS FILE #	TITLE	COUNTRY	FILING DATE	SERIAL NO.	ISSUED DATE	REG. NO.
T8466671US	Tank Valve	US	2001/10/24	09/983,456		
(D) Instant-On Tank Valves						
K800018SE	Instant-on Valve Construction for High Pressure Gas & Method of Operation (GFI)	Sweden	1996/07/15	96305181.8	00/05/24	0753695
K800018FR	Instant-on Valve Construction for High Pressure Gas & Method of Operation (GFI)	France	1996/07/15	96305181.8	00/05/24	0753695
K800018DE	Instant-on Valve Construction for High Pressure Gas & Method of Operation (GFI)	Germany	1996/07/15	69608503.8	00/05/24	0753695
K800018GB	Instant-on Valve Construction for High Pressure Gas & Method of Operation (GFI)	Great Britain	1996/07/15	96305181.8	00/05/24	0753695
K800018CA	Instant-on Valve Construction for High Pressure Gas & Method of Operation (GFI)	Canada	1996/07/15	2,181,209	2002/01/15	2,181,209
K800018US	Instant-on Valve Construction for High Pressure Gas & Method of Operation (GFI)	US	1996/07/15	08/679,870	1998/06/09	5,762,087
K8000107CA	Instant-on tank Valve with Manual Override (GFI)	Canada	1997/04/28	2,203,842		
K8000107BR	Instant-on tank Valve with Manual Override (GFI)	Brazil	1997/04/30	PI-9700645-9		
K8000107IN	Instant-on tank Valve with Manual Override (GFI)	India	1997/04/29	1093/DEL/97		
K8000107JP	Instant-on tank Valve with Manual Override (GFI)	Japan	1997/04/30	113158/97		
K8000107US	Instant-on tank Valve with Manual Override (GFI)	US	1997/04/28	08/845,775	01/03/20	6,202,688
T8465930US	Two Stage Pressure Regulator Solenoid Assembly (Sherex)	US	1997/08/15	08/920,206		
(E) Other Tank Valve Features						
T8466225US	High Pressure Gas Valve Having an Inverted Stem/Seat Design (Mirada)	US	1997/09/19	08/933,812	1999/12/28	6,007,049
T8466598CA1	Valve with Vibration Dampening Means (GFI)	Canada	2002/04/17	2,381,861		
T8466598US	Valve with Vibration Dampening Means (GFI)	US	2002/04/18	10/125,595		
T8466315US	Manually-operated Tank Valve (GFI)	US	2002/03/01	10/085,109		

GFI PATENT SUMMARY – PRESSURE REGULATORS

GOWLINGS FILE #	TITLE	COUNTRY	FILING DATE	SERIAL NO.	ISSUED DATE	REG. NO.
(A) Low Pressure Gas Vaporizer (GFI)						
T8462777CA	Low Pressure Gas Vaporizer and Method of Operation	Canada	1997/02/21	2,198,157		
T8466247US	Low Pressure Gas Vaporizer and Method of Operation	US	1997/02/21	08/803,672	2000/04/04	6,044,825
(B) Two Stage Regulator (Sherex)						
T8465833CA	Improved Two Stage Regulator	Canada	1994/08/30	2,131,108		
T8465950NL	Improved Two Stage Regulator	Netherlands	1995/08/30	95928922.4	1999/08/04	0778965
T8465958MX	Improved Two Stage Pressure Regulator	Mexico	1995/08/30	971498		
T8465937AU	Improved Two Stage Pressure Regulator	Australia	1995/08/30	32502/95	1999/04/15	700267
T8465950DE	Improved Two Stage Pressure Regulator	Germany	1995/08/30	695 11 274 T2	1998/08/04	0778 965
T8465948JP	Improved Two Stage Pressure Regulator	Japan	1995/08/30	508,380/1996		
T8465950IT	Improved Two Stage Pressure Regulator	Italy	1995/08/30	95928922.4	1999/08/04	0778965
T8465943KR	Improved Two Stage Pressure Regulator	Korea	1995/08/30	97-701320		
T8465938CN	Improved Two Stage Pressure Regulator	China	1995/08/30	95195586.1		
T8466838US	Improved Two Stage Pressure Regulator	US	1997/03/27	08/622,912	1998/05/26	5,755,254
T8465935UK	Improved Two Stage Pressure Regulator	Great Britain	1995/08/30	9704402.8	1998/12/02	2307029
T8465950DK	Improved Two Stage Pressure Regulator	Denmark	1995/08/30	95928922.4	1999/08/04	0778965
T8465946BR	Improved Two Stage Pressure Regulator	Brazil	1995/08/30	PI-9509198-0		
T8465836CA	Improved Two Stage Pressure Regulator	Canada	1997/02/27	2,198,610		
T8465836CA1	Improved Two Stage Pressure Regulator	Canada	1995/08/30	2,375,937		
(C) Three Stage Regulator (Sherex)						
T8465941BR	Three Stage Gas Pressure Regulator	Brazil	1995/11/27	PI-9509513-6		
T8465939KR	Three Stage Gas Pressure Regulator	Korea	1995/11/27	97-703247		
T8465936MX	Three Stage Gas Pressure Regulator	Mexico	1995/11/27	973862		
T8465947JP	Three Stage Gas Pressure Regulator	Japan	1995/11/27	517,976/1996		
T8465932AU	Three Stage Gas Pressure Regulator	Australia	1995/11/27	39204/95	1999/02/04	698012
T8465839US	Three Stage Gas Pressure Regulator	US	1995/11/28	08/563,391	1998/08/25	5,797,425
T8465835CA	Three Stage Gas Pressure Regulator	Canada	1995/11/27	2,199,521	2001/05/15	2,199,521
T8465834CA	Three Stage Gas Pressure Regulator	Canada	1994/11/25	2,136,699		
T8465949EP	Three Stage Gas Pressure Regulator	Europe	1995/11/27	95936914.1		
T8465941CN	Three Stage Gas Pressure Regulator	China	1995/11/27	95196163.2		
T8465933UK	Three Stage Gas Pressure Regulator	Great Britain	1995/11/27	2307029	1998/08/05	2307729
(D) In-Tank Pressure Regulator System (GFI)						
T8000112US	Gas Flow Regulator System	US	2001/06/21	09/886,115		
T8000112CA1	Gas Flow Regulator System	Canada	2001/06/22	PCT/CA01/00901		
T8000112EP	Gas Flow Regulator System	Europe	2001/06/22	01 94 4834.9		

GFI PATENT SUMMARY – PRESSURE REGULATORS

GOWLINGS FILE #	TITLE	COUNTRY	FILING DATE	SERIAL NO.	ISSUED DATE	REG. NO.
T8000112JP	Gas Flow Regulator System	Japan	2001/06/22	PCT/CA01/00901		
T8000112KR	Gas Flow Regulator System	Korea	2001/06/22	10-2002-7017549		
T8000112WO	Gas Flow Regulator System	PCT	2001/06/22	PCT/CA01/00901		
(E) In Tank Regulator (GFI)						
T8000135US	Pressure Regulator	US	2001/06/21	09/886,120		
T8000135WO	Pressure Regulator	PCT	2001/06/22	PCT/CA01/00902		
T8000135CA1	Pressure Regulator	Canada	2001/06/22	PCT/CA01/00902		
T8000135EP	Pressure Regulator	Europe	2001/06/22	01 94 7080.6		
T8000135JP	Pressure Regulator	Japan	2001/06/22	PCT/CA01/00902		
T8000135KR	Pressure Regulator	Korea	2001/06/22	10-2002-7017550		

GFI PATENT SUMMARY – RELIEF VALVES

GOWLINGS FILE #	TITLE	COUNTRY	FILING DATE	SERIAL NO.	ISSUED DATE	REG. NO.
(A) Piston-Type Thermally Activated Relief Device						
K8000131CA	Piston-Type Thermally Activated Relief Device (Harsco)	Canada	1995/11/06	2,162,240	1999/01/06	2,162,240
K8000131DE	Piston-Type Thermally Activated Relief Device (Harsco)	Germany	1996/01/06	196 00 312.1		
K8000131US	Piston-Type Thermally Activated Relief Device (Harsco)	US	1995/01/17	08/373,622	1996/04/30	5,511,576
K8000131JP	Piston-Type Thermally Activated Relief Device (Harsco)	Japan	1996/01/17	5968/96	2002/04/17	2,711,144
T8466227US	Temperature Relief Valve with Thermal Trigger (Mirada)	US	1995/02/28	08/411,493	1996/03/05	5,495,865
T8466324US1	Pressure Relief Device (GFI)	US	2002/05/02	10/141,974		
T8466324WO	Pressure Relief Device (GFI)	PCT	2002/03/20	PCT/CA02/00372		
T8466670US	Thermally Activated Pressure Relief Device (GFI)	US	2002/04/23	60/374,496		
T8467128US	Method of Forming a Thermally Activated Pressure Relief Device (Harsco)	US	1987/04/28	43,978	1989/01/31	4,800,948
T8467129US	Thermally Activated Valve (Harsco)	US	1987/04/29	43,830	1988/05/17	4,744,383
(B) Piston-Type Thermally or Pressure Activated Relief Device						
K8000133US	Piston-Type Thermally or Pressure Activated Relief Device	US	1995/09/26	08/543,195	1997/05/27	5,632,297
K8000133EP	Piston-Type Thermally or Pressure Activated Relief Device	Europe	1996/09/11	96306579.2		
K8000133DE	Piston-Type Thermally or Pressure Activated Relief Device	Germany			1999/09/22	766 028 B1
K8000133ES	Piston-Type Thermally or Pressure Activated Relief Device	Spain			1999/09/22	766 028 B1
K8000133FR	Piston-Type Thermally or Pressure Activated Relief Device	France			1999/09/22	766 028 B1
K8000133GB	Piston-Type Thermally or Pressure Activated Relief Device	Great Britain			1999/09/22	766 028 B1
K8000133IT	Piston-Type Thermally or Pressure Activated Relief Device	Italy			1999/09/22	766 028 B1
K8000133LU	Piston-Type Thermally or Pressure Activated Relief Device	Luxemburg			1999/09/22	766 028 B1
K8000133NL	Piston-Type Thermally or Pressure Activated Relief Device	Netherlands			1999/09/22	766 028 B1
K8000133SE	Piston-Type Thermally or Pressure Activated Relief Device	Sweden			1999/09/22	766 028 B1
K8000133JP	Piston-Type Thermally or Pressure Activated Relief Device	Japan	1996/09/25	252,635/96	1999/12/24	3015811
T8467130US	Combination Thermal or Pressure Activated Relief Valve (Harsco)	US	1987/04/29	43,955	1988/05/17	4,744,382
T8467131CA	Thermally Activated Valve (Harsco)	CA	1988/04/28	565,320	1991/07/23	1,286,566
(C) Bayonet-Type Thermally Activated Relief Device						
T8466230US	Pressure and Temperature Relief Valve with Thermal Trigger	US	1991/05/30	08/707,596	1992/11/10	5,161,738
T8466226US	Thermal Relief Valve with Improved Bayonet	US	1995/03/28	08/411,945	1997/07/15	5,647,390

GFI PATENT SUMMARY – METERING DEVICES

GOWLINGS FILE #	TITLE	COUNTRY	FILING DATE	SERIAL NO.	ISSUED DATE	REG. NO.
(A) Flow Control System (Ortech)						
K8000015MX	Flow Control System	Mexico	1990/09/26	22,575	1997/10/24	186,581
K8000015IT	Flow Control Device	Italy	1990/09/26	90310513.8	1995/10/26	0420599
K8000015GB	Flow Control System	Great Britain	1990/09/26	90310513.8	1990/10/26	0420599
K8000015NL	Flow Control System	Netherlands	1990/09/26	90310513.8	1990/10/26	0420599
K8000015AT	Flow Control System	Austria	1990/09/26	90310513.8	1995/09/26	E124112
K8000015CH	Flow Control Device	Switzerland	1990/09/26	90310513.8	1990/10/26	0420599
K8000015FR	Flow Control Device	France	1990/09/26	90310513.8	1995/09/26	0420599
K8000015CN	Flow Control System	China	1990/09/29	90108144.2	1994/09/29	90108144.2
K8000015DE	Flow Control System	Germany	1990/09/26	90310513.8	1995/10/26	69020283
T8465837CA	Flow Control System	Canada	1989/09/29	614,540	1994/02/08	1,326,794
T8465840US	Flow Control System	US	1990/04/20	07/512,300	1992/09/29	5,150,690
(B) Electrically Actuated Gaseous Fuel Timing and Metering Device (U of T)						
T8463867US	Electrically Actuated Gaseous Fuel Timing and Metering Device	US	1990/07/02	07/546,749	1991/07/30	5,035,360
T83912145CA	Electrically Actuated Gaseous Fuel Timing and Metering Device	Canada			1990/05/08	2,016,284
(C) Digital Gas Metering System Using Tri-Stable and Bi-Stable Solenoids (Ortech)						
T8465978CA	Digital Gas Metering System Using Tri-Stable and Bi-Stable Solenoids	Canada	1996/08/16	2,183,478		
T8465978US	Digital Gas Metering System Using Tri-Stable and Bi-Stable Solenoids	US	1996/08/19	08/699,498	1999/03/02	5,875,817
T8465977US	Tri-Stable Solenoid-Operated Value	US	1996/08/16	08/629,643	1998/12/22	5,851,002
(D) Electronic Gaseous Fuel Injection Systems						
T8466578CA	Integrated Fuel Control Unit for Gas Operated Engines (Dana)	CA	2001/09/18	2,357,460		
T8466578US	Integrated Fuel Control Unit for Gas Operated Engines (Dana)	US	2000/04/28	09/561,164		
T8466689US	Fuel Control System for Gas Operated Engines (Dana)	US	1999/9/12	09/351,553	2001/03/6	6,196,205
T8466691US	Linear Gaseous Fuel Flow Controller (Dana)	US	1994/09/2	300/464	1996/12/17	5,584,467
T8466693US	Electronic Gaseous Fuel Injector System (Dana)	US	1993/9/13	120,286	1994/9/13	5,343,847
T8467046US	Metering Valve and Fuel Supply System Equipped Therewith	US	1999/06/09	09/719,119		
(E) Fluid Control Hardware						
T8466690US	Flexible Membrane Variable Orifice Fluid Flow Meter (Dana)	US	1995/6/09	488,842	1997/08/05	5,654,512
T8466692US	Liquid Petroleum Gas Fuel Delivery System (Dana)	US	1993/9/10	119,956	1995/01/03	5,377,646

GFI PATENT SUMMARY – FUEL FILL COMPONENTS

GOWLINGS FILE #	TITLE	COUNTRY	FILING DATE	SERIAL NO.	ISSUED DATE	REG. NO.
(A) Refuelling Check Valve for CNG (Harsco)						
K8000130DE	Refueling Check Valve for Compressed Natural Gas	Germany	1996/01/12	196 00 878.6		
K8000130US	Refueling Check Valve for Compressed Natural Gas	US	1995/01/17	08/372,960	1995/12/12	5,474,104
K8000130CA	Refueling Check Valve for Compressed Natural Gas	Canada	1995/10/31	2,161,843	1999/01/19	2,161,843
K8000130JP	Refueling Check Valve for Compressed Natural Gas	Japan	1996/01/17	5960/96	1997/07/25	2677541
(B) In-Line Fuel Fill Valve						
K8000132US	In-Line Fuel Fill Valve (Harsco)	US	1995/12/12	08/571,292	1998/07/28	5,785,082
T8466895US	Pressurized Valve Seal	US	2002/04/18	10/124,404		
T8466895CA	Pressurized Valve Seal	CA	2002/04/18	2,382,594		
(C) Pressuried Fluid Storage and Transfer System (Harsco)						
K8000134US	Pressurized Fluid Storage and Transfer System	US	1996/10/15	08/729,953	1998/10/13	5,820,102
K8000134JP	Pressurized Fluid Storage and Transfer System	Japan	1997/09/29	263730/97		
K8000134EP	Pressurized Fluid Storage and Transfer System	Europe	1997/09/29	97305676.5		

GFI PATENT SUMMARY – DUAL ENGINE

GOWLINGS FILE #	TITLE	COUNTRY	FILING DATE	SERIAL NO.	ISSUED DATE	REG. NO.
K8000088US	Fuel Injector Adaptor for Conversion of Single Fuel Engines to Dual Fuel Engines	US	1999/08/27	09/384,107	2002/05/07	6,382,182
T8465223CA	Fuel Injector Adaptor for Conversion of Single Fuel Engines to Dual Fuel Engines	Canada	1999/07/30	2,279,149		

GOWLINGS FILE #	TITLE	COUNTRY	FILING DATE	SERIAL NO.	REGISTERED DATE	REG. NO.
T8463866US	Dual Fuel Natural Gas/Diesel 2 Stroke Engine	US	1990/07/05	07/548,559	1991/07/30	5,035,206
T8466974US	Method and Apparatus for Dosing a Gaseous Fuel	US			1998/09/08	5,803,057

last updated March 6, 2003

::ODMA\PCDOCS\WAT_LAW\756793