

**TRADEMARK ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Intellectual Property Security Agreement

**CONVEYING PARTY DATA**

Name	Formerly	Execution Date	Entity Type
NxStage Medical, Inc.		06/05/2009	CORPORATION: DELAWARE
Eir Medical, Inc.		06/05/2009	CORPORATION: MASSACHUSETTS
Medisystems Corporation		06/05/2009	CORPORATION: WASHINGTON
Medisystems Services Corporation		06/05/2009	CORPORATION: NEVADA

**RECEIVING PARTY DATA**

<b>Name:</b>	Asahi Kasei Kuraray Medical Co., Ltd.
<b>Street Address:</b>	1-105 Kanda Jinbocho
<b>City:</b>	Chiyoda-ku, Tokyo
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	101-8101
<b>Entity Type:</b>	CORPORATION: JAPAN

**PROPERTY NUMBERS Total: 22**

Property Type	Number	Word Mark
Registration Number:	2547174	ACCESS ALERT
Registration Number:	2694959	BUTTONHOLE
Registration Number:	2872892	FINGERSHIELD
Registration Number:	3265436	LOCKSITE
Registration Number:	3308225	MASTERGEL
Registration Number:	2162400	MASTERGUARD
Serial Number:	78931548	MASTERLOCK
Registration Number:	2492985	MASTERSEAL
Registration Number:	1855659	MEDIC
Registration Number:	2322952	MEDISYSTEMS

CH \$565.00 2547174

Registration Number:	2500286	
Serial Number:	77544488	NXRX
Registration Number:	2565759	NXSTAGE
Registration Number:	2565758	NXSTAGE
Registration Number:	2601448	PROTECTING YOU . . . WHILE YOU CARE FOR YOUR PATIENT.
Registration Number:	1850632	READYSET
Registration Number:	3412661	REVERSO
Registration Number:	2439340	SAMESITE
Registration Number:	3496624	STERIPICK
Registration Number:	3127215	STREAMLINE
Registration Number:	2957785	TWINPACK+
Registration Number:	2712842	VIRAGUARD

**CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	301242.0002
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**DOMESTIC REPRESENTATIVE**

Name:  
Address Line 1:  
Address Line 2:  
Address Line 3:  
Address Line 4:

NAME OF SUBMITTER:	Jessica Davis
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Signature:	/Jdavis/
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Date:	06/11/2009
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Total Attachments: 27  
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## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT (this "Agreement"), dated as of June 5, 2009, is made by NXSTAGE MEDICAL, INC., a Delaware corporation ("NxStage"), EIR MEDICAL, INC., a Massachusetts corporation ("EIR"), MEDISYSTEMS CORPORATION, a Washington corporation ("MDS") and MEDISYSTEMS SERVICES CORPORATION, a Nevada corporation ("MSC") and together with NxStage, EIR and MDS, collectively "Grantor", in favor of ASAHU KASEI KURARAY MEDICAL CO., LTD., as lender ("Asahi"), a corporation organized and existing under the law of Japan.

### WITNESSETH

WHEREAS, pursuant to that certain Term Loan and Security Agreement, dated as of the date hereof (as the same may be amended, restated, replaced, supplemented or otherwise modified from time to time, the "Loan Agreement"), by and among Grantor, the guarantors party thereto, and Asahi, Asahi has agreed to make extensions of credit to the Grantor upon the terms and subject to the conditions set forth therein; and

WHEREAS, in consideration of the extension of credit provided to Grantor under the Loan Agreement, Grantor is required to execute and deliver this Agreement.

NOW, THEREFORE, in consideration of the premises and mutual covenants herein contained and to induce Asahi to enter into and extend credit to Grantor pursuant to the Loan Agreement, and for other good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

Section 1. Defined Terms. Capitalized terms used herein without definition are used as defined in the Loan Agreement.

Section 2. Grant of Security Interest in Intellectual Property Collateral. As collateral security for the prompt and complete payment and performance when due (whether at stated maturity, by acceleration or otherwise) of the Obligations, Grantor hereby mortgages, pledges, grants and hypothecates to Asahi, a Lien on and security interest in, all of its right, title and interest in, to and under the following Collateral of Grantor (the "Intellectual Property Collateral"):

(a) all of its trade secrets and rights under any written agreement granting any right to use trade secrets;

(b) all of its copyrights and copyright licenses, and rights under any written agreement granting any right to use copyrights, including, without limitation, those referred to on Schedule 1 hereto, together with all licenses related thereto, and all renewals, reversions and extensions of the foregoing;

(c) all of its trademarks, and rights under any written agreement granting any right to use trademarks, including, without limitation, those referred to on Schedule 2 hereto, together with all licenses related thereto, and all renewals, reversions and extensions of the foregoing;

(d) all goodwill of the business connected with the use of, and symbolized by, each such trademark covered by clause (c) above;

(e) all of its US patents and patent licenses and rights under any written agreement granting any right to use US patents, including, without limitation, those referred to on Schedule 2 hereto, together with all licenses related thereto, and all reissues, reexaminations, continuations, continuations-in-part, divisionals, renewals and extensions of the foregoing;

(f) all of its US patent applications and rights under any written agreement granting any right to use US patent applications, including, without limitation, those referred to on Schedule 2 hereto, together with all licenses related thereto, and all reissues, reexaminations, continuations, continuations-in-part, divisionals, renewals and extensions of the foregoing;

(g) to the extent permissible under the applicable laws of each relevant foreign jurisdiction, all of its Patent Cooperation Treaty ("PCT") patent applications and rights under any written agreement granting any right to use PCT patent applications, including, without limitation, those referred to on Schedule 2 hereto;

(h) to the extent permissible under the applicable laws of each relevant foreign jurisdiction, all of its foreign patents and patent applications, and rights under any written agreement granting any right to use foreign patents and patent applications, including, without limitation, those referred to on Schedule 2 hereto, together with all reissues, reexaminations, continuations, continuations-in-part, divisionals, renewals and extensions of the foregoing; and

(i) all applications, registrations, claims, awards, judgments, amendments, improvements and cash insurance claims proceeds related to the foregoing now or hereafter owned or licensed by Grantor, or any claims for damages by way of any past, present, or future infringement of any of the foregoing, together with all accessions and additions thereto; provided, further, that the Intellectual Property Collateral shall include, without limitation, all direct cash proceeds from the sale of any or all of the Intellectual Property Collateral.

Notwithstanding the foregoing, except as expressly set forth in clause (i) above, Intellectual Property Collateral shall not include (A) product or proceeds of Intellectual Property Collateral; and (B) any licenses which are now or hereafter held by NxStage as licensee, to the extent that (i) such licenses are not assignable or capable of being encumbered under the terms of the license or other agreement applicable thereto (unless and solely to the extent that any such restriction on assignment or encumbrance is ineffective under the UCC or other applicable law), without the consent of the licensor thereof or other applicable party thereto and (ii) such consent has not been obtained after using commercially reasonable efforts to obtain such consent; provided, however, that upon obtaining the consent of any such licensor or other applicable party to the assignment or encumbrance of such license or other agreement, or upon the termination or expiration of any such prohibition, such license that theretofore might have been excluded from such grant of a Security Interest shall automatically be subject to the security interest granted in favor of Asahi hereunder and become part of the Collateral.

Section 3. Loan Agreement. The security interest granted pursuant to this Agreement is granted in conjunction with, and in no way limiting, the security interest granted to

Asahi pursuant to the Loan Agreement and each Grantor hereby acknowledges and agrees that the rights and remedies of Asahi with respect to the security interest in the Intellectual Property Collateral made and granted hereby are in addition to those set forth in the Loan Agreement, and those which are now or hereafter available to Asahi as a matter of law or equity. Each right, power and remedy of Asahi provided for herein or in the Loan Agreement, or now or hereafter existing at law or in equity shall be cumulative and concurrent and the exercise by Asahi of any one or more of the rights, powers or remedies provided for in this Agreement, the Loan Agreement, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Asahi, of any or all other rights, powers or remedies.

Section 4. Grantor Remains Liable. Grantor hereby agrees that, anything herein to the contrary notwithstanding, Grantor shall retain full and complete responsibility for the prosecution, defense, enforcement or any other necessary or desirable actions in connection with the Intellectual Property Collateral.

Section 5. Counterparts. This Agreement may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart.

Section 6. Governing Law. This Agreement and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York without regard to conflicts of laws principles.

*[Signature Pages Follow]*

In witness whereof, Grantor has caused this Intellectual Property Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

**GRANTOR:**

**NXSTAGE MEDICAL, INC.,**  
as Grantor

By: *Jeffrey H. Burkink*  
Name: Jeffrey H. Burkink  
Title: President

**EIR MEDICAL, INC.,**  
as Grantor

By: *Jeffrey H. Burkink*  
Name: Jeffrey H. Burkink  
Title: President

**MEDISYSTEMS SERVICES CORPORATION,**  
as Grantor

By: *Jeffrey H. Burkink*  
Name: Jeffrey H. Burkink  
Title: President

**MEDISYSTEMS CORPORATION,**  
as Grantor

By: *Jeffrey H. Burkink*  
Name: Jeffrey H. Burkink  
Title: President

ACCEPTED AND AGREED  
as of the date first above written:

**ASAHI KASEI KURARAY MEDICAL CO., LTD.,**  
as Lender

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

IP Security Agreement

In witness whereof, Grantor has caused this Intellectual Property Security Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

**GRANTOR:**

**NXSTAGE MEDICAL, INC.,**  
as Grantor

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**EIR MEDICAL, INC.,**  
as Grantor

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**MEDISYSTEMS SERVICES CORPORATION,**  
as Grantor

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

**MEDISYSTEMS CORPORATION,**  
as Grantor

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

ACCEPTED AND AGREED  
as of the date first above written:

**ASAHI KASEI KURARAY MEDICAL CO., LTD.,**  
as Lender

By: Y. Yoshida  
Name: Yasuyuki Yoshida  
Title: President

IP Security Agreement



**Schedule 1**

**Copyrights**

No registered copyrights.

**Schedule 2**

**Patents and Trademarks**

See attached schedules.

NxStage Patents and Applications

T4342-14198US22	US	10/041,949	6,979,309	SYSTEMS AND METHODS FOR PERFORMING BLOOD PROCESSING AND/OR FLUID EXCHANGE PROCEDURES	ISSUED
T4342-14517US01	US	09/174,721	7,004,924	METHODS, SYSTEMS, AND KITS FOR THE EXTRACORPOREAL PROCESSING OF BLOOD	ISSUED
T4342-14506US01	US	09/829,670	6,572,641	DEVICES FOR WARMING FLUID AND METHODS OF USE	ISSUED
T4342-14198US22	US	10/796,787	7,147,613	MEASUREMENT OF FLUID PRESSURE IN A BLOOD TREATMENT DEVICE	ISSUED
T4342-14198US24	US	10/807,906	7,300,413	BLOOD PROCESSING MACHINE AND SYSTEM USING FLUID CIRCUIT CARTRIDGE	ISSUED
T4342-14198US25	US	10/808,287	7,338,460	BLOOD PROCESSING MACHINE FLUID CIRCUIT CARTRIDGE	ISSUED
T4342-14198US28	US	10/808,213	7,267,658	Renal replacement therapy device for controlling fluid balance of treated patient	ISSUED
T4342-14198US05	US	10/913,815	7,347,849	Modular medical treatment replaceable component	ISSUED
T4342-14198US34	US	09/894,236	6,955,655	HEMOPHILTRATION SYSTEM	ISSUED
T4342-14514JP01	JP	2003-512663	4118233	METHOD AND APPARATUS FOR LEAK DETECTION IN A FLUID LINE	ISSUED
T4342-14514US01	US	09/900,362	6,572,576	METHOD AND APPARATUS FOR LEAK DETECTION IN A FLUID LINE	ISSUED
T4342-14514US02	US	10/483,142	7,087,033	METHOD AND APPARATUS FOR LEAK DETECTION IN A FLUID LINE	ISSUED

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T4342- I4515US01	US	10/037,429	7,040,142	METHOD AND APPARATUS FOR LEAK DETECTION IN BLOOD CIRCUITS COMBINING EXTERNAL FLUID DETECTION AND AIR INFILTRATION DETECTION	ISSUED
T4342- I4198US12	US	09/513,771	6,673,314	INTERACTIVE SYSTEMS AND METHODS FOR SUPPORTING HEMOFILTRATION THERAPIES	ISSUED
T4342- I4495US01	US	09/904,712	6,702,561	DEVICES AND METHODS FOR PUTTING A FILTER FOR BLOOD PROCESSING	ISSUED
T4342- I4504US04	US	09/905,246	6,649,063	METHOD FOR PERFORMING RENAL REPLACEMENT THERAPY INCLUDING PRODUCING STERILE REPLACEMENT FLUID IN A RENAL REPLACEMENT THERAPY UNIT	ISSUED
T4342- I4504US01	US	10/650,935	7,214,312	FLUID CIRCUITS, SYSTEMS, AND PROCESSES FOR EXTRACORPOREAL BLOOD PROCESSING	ISSUED
T4342- I4504US02	US	11/695,739	7,419,597	FLUID, CIRCUITS, SYSTEMS, AND PROCESSES FOR EXTRACORPOREAL BLOOD PROCESSING	ISSUED
T4342- I4511US01	US	09/907,872	6,743,193	HERMETIC FLOW SELECTOR VALVE	ISSUED
T4342- I4198US02	US	09/513,910	6,830,553	BLOOD TREATMENT SYSTEMS AND METHODS THAT MAINTAIN STERILE EXTRACORPOREAL	ISSUED
T4342- I4198US03	US	09/513,773	6,579,253	FLUID PROCESSING SYSTEMS AND METHODS USING EXTRACORPOREAL FLUID FLOW PANELS ORIENTED WITHIN A CARTRIDGE	ISSUED
T4342- I4198US04	US	09/865,905	6,852,090	FLUID PROCESSING SYSTEMS AND METHODS USING EXTRACORPOREAL FLUID FLOW	ISSUED
T4342- I4507US01	US	09/512,132	6,254,567	FLOW-THROUGH PERITONEAL DIALYZER SYSTEM AND METHODS WITH ON-LINE DIALYSIS SOLUTION REGENERATION	ISSUED
T4342- I4198US14	US	09/512,929	6,638,477	FLUID REPLACEMENT SYSTEMS AND METHODS FOR USE IN HEMOFILTRATION	ISSUED
T4342- I4198US13	US	09/512,927	6,589,482	EXTRACORPOREAL CIRCUITS FOR PERFORMING HEMOFILTRATION EMPLOYING PRESSURE SENSING WITHOUT AN AIR INTERFACE	ISSUED

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T4342- I4198US11	US	09/513,902	6,554,789	LAYERED FLUID CIRCUIT ASSEMBLIES AND METHODS FOR MAKING THEM	ISSUED
T4342- I4198GB01	GB	98904867.3	0969887	HEMOFILTRATION SYSTEM	ISSUED
T4342- I4198US16	US	09/513,915	6,595,943	SYSTEMS AND METHODS FOR CONTROLLING BLOOD FLOW AND WASTE FLUID REMOVAL DURING HEMOFILTRATION	ISSUED
T4342- I4508US01	US	09/027,301	6,582,385	HEMOFILTRATION SYSTEM INCLUDING ULTRAFILTRATE PURIFICATION AND RE-INFUSION SYSTEM	ISSUED
T4342- I4198US09	US	09/513,911	6,638,478	SYNCHRONIZED VOLUMETRIC FLUID BALANCING SYSTEMS AND METHODS	ISSUED
T4342- I4518US02	US	10/772,888	7,226,538	FLUID PROCESSING APPARATUS	ISSUED
T4342- I4198US17	US	10/649,582	7,473,238	Hemofiltration systems and methods that maintain sterile extracorporeal processing conditions	ISSUED
T4342- I4519US01	US	10/672,242	7,112,273	Volumetric fluid balance control for extracorporeal blood treatment	ISSUED
T4342- I4495US01	US	10/393,295	6,872,346	METHOD AND APPARATUS FOR MANUFACTURING FILTERS	ISSUED
T4342- I4501US01	US	10/393,185	7,470,265	DUAL ACCESS SPIKE FOR INFUSATE BAGS	ISSUED
T4342- I4522US01	US	11/160,586	7,337,674	PRESSURE DETECTOR FOR FLUID CIRCUITS	ISSUED
T4342- I4505EU01	EU	000023148-0001	000023148-0001	BLOOD TREATMENT MACHINE AND PARTS THEREOF	ISSUED
T4342- I4514EP01	EP	02761044.3		METHOD AND APPARATUS FOR LEAK DETECTION IN A FLUID LINE	PENDING

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T4342-14198EP03	EP	00992548.8		LAYERED FLUID CIRCUIT ASSEMBLIES AND METHODS FOR MAKING THEM	PENDING
T4342-14198EP02	EP	00982268.5		SYNCHRONIZED VOLUMETRIC FLUID BALANCING SYSTEMS AND METHODS	PENDING
T4342-14198EP06	EP	00992532.2		INTERACTIVE SYSTEMS AND METHODS FOR SUPPORTING HEMOFILTRATION THERAPIES	PENDING
T4342-14198EP05	EP	00991516.6		FLUID PROCESSING SYSTEMS AND METHODS USING EXTRACORPOREAL FLUID FLOW PANELS ORIENTED WITHIN A CARTRIDGE	PENDING
T4342-14198JP05	JP	2001-543177		LAYERED FLUID CIRCUIT ASSEMBLIES AND METHODS FOR MAKING THEM	PENDING
T4342-14198JP03	JP	2001-539403		FLUID PROCESSING SYSTEMS AND METHODS USING EXTRACORPOREAL FLUID FLOW PANELS ORIENTED WITHIN A CARTRIDGE	PENDING
T4342-14501JP01	JP	2006-538506		IMPROVED METHODS AND APPARATUS FOR LEAK DETECTION IN BLOOD PROCESSING SYSTEMS	PENDING
T4342-14500DE01	DE	N/A		PREPARING REPLACEMENT FLUID	PENDING
T4342-14500EP01	EP	04700648.1		PREPARING REPLACEMENT FLUID	PENDING
T4342-14500GB01	GB	N/A		PREPARING REPLACEMENT FLUID	PENDING
T4342-14498US04	US	12/434,246		BATCH FILTRATION SYSTEM FOR PREPARATION OF STERILE FLUID FOR RENAL REPLACEMENT THERAPY	PENDING
T4342-14494US04	US	11/577,126		BLOOD TREATMENT DIALYZER/FILTER DESIGN TO TRAP ENTRAINED AIR IN A FLUID CIRCUIT	PENDING
T4342-14494US06	US	12/432,507		BLOOD TREATMENT DIALYZER/FILTER FOR PERMITTING GAS REMOVAL	PENDING

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T4342- I4510US01	US	12/091,728					SAFETY FEATURES FOR MEDICAL DEVICES REQUIRING ASSISTANCE AND SUPERVISION	PENDING
T4342- I4498CA01	CA	2,593,580					DEVICES, SYSTEMS, AND METHODS FOR FLUID, PREPARATION, STORAGE, AND TREATMENT	PENDING
T4342- I4498JP01	JP	2007-550528					DEVICES, SYSTEMS, AND METHODS FOR FLUID, PREPARATION, STORAGE, AND TREATMENT	PENDING
T4342- I4505JP01	JP	2009-504504					FILTRATION SYSTEM FOR PREPARATION OF FLUIDS FOR MEDICAL APPLICATIONS	PENDING
T4342- I4505US01	US	12/296,415					FILTRATION SYSTEM FOR PREPARATION OF FLUIDS FOR MEDICAL APPLICATIONS	PENDING
T4342- I4501EP01	EP	04810398.0					Improved Methods and Apparatus for Leak Detection in Blood Processing Systems	PENDING
T4342- I7070PV01	US	61/159,545					DIALYSIS SYSTEM	PENDING
T4342- I4521US01	US	10/699,921					Functional isolation of upgradeable components to reduce risk in medical	PENDING
T4342- I4198US18	US	10/796,913					Registration of fluid circuit components in a blood treatment device	PENDING
T4342- I4198US20	US	10/796,898					Network-based extracorporeal blood treatment information system	PENDING
T4342- I4198US21	US	10/796,899					Blood flow control in a blood treatment device	PENDING
T4342- I4198US06	US	12/021,872					BLOOD TREATMENT APPARATUS	PENDING
T4342- I4399US03	US	12/015,420					METHODS, DEVICES, AND SYSTEMS FOR HEMODILUTION	PENDING

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T4342- I4516US01	US	10/037,254	METHOD AND APPARATUS FOR MACHINE ERROR DETECTION BY COMBINING MULTIPLE SENSOR INPUTS	PENDING
T4342- I4518EP01	EP	02746907.1	SYSTEMS AND METHODS FOR HANDLING AIR AND/OR FLUSHING FLUIDS IN A FLUID CIRCUIT	PENDING
T4342- I4518US03	US	11/742,715	SYSTEMS AND METHODS FOR HANDLING AIR AND/OR FLUSHING FLUIDS IN A FLUID CIRCUIT	PENDING
T4342- I4512EP01	EP	03736839.4	LAST-CHANCE QUALITY CHECK AND/OR AIR/PYROGEN FILTER FOR INFUSION SYSTEMS [2005/21]	PENDING
T4342- I4512US02	US	12/640,748	LAST-CHANCE QUALITY CHECK AND/OR AIR/PATHOGEN FILTER FOR INFUSION SYSTEMS	PENDING
T4342- I4499EP01	EP	04757998.2	METHOD AND APPARATUS FOR MANUFACTURING FILTERS [2006/10]	PENDING
T4342- I4501US02	US	10/578,600	METHODS AND APPARATUS FOR LEAK DETECTION IN BLOOD PROCESSING SYSTEMS	PENDING
T4342- I4264US01	US	10/544,124	WASTE BALANCING FOR EXTRACORPOREAL BLOOD TREATMENT SYSTEMS	PENDING
T4342- I4498US03	US	11/160,764	BATCH FILTRATION SYSTEM FOR PREPARATION OF STERILE FLUID FOR RENAL REPLACEMENT THERAPY	PENDING
T4342- I4494WO01	WO	PCT/US05/36603	BLOOD TREATMENT DIALYZER/FILTER DESIGN TO TRAP ENTRAINED AIR IN A FLUID CIRCUIT	PENDING
T4342- I4498US01	US	10/585,675	FILTRATION SYSTEM FOR PREPARATION OF FLUIDS FOR MEDICAL APPLICATIONS	PENDING
T4342- I4502US01	US	11/553,148	BLOOD TREATMENT FILTER AND METHOD OF MANUFACTURING	PENDING
T4342- I4498EP01	EP	06717769.1	DEVICES, SYSTEMS, AND METHODS FOR FLUID, PREPARATION, STORAGE, AND TREATMENT	PENDING

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T4342- 14498US02	US	11/813,472		FILTRATION SYSTEM FOR PREPARATION OF FLUIDS FOR MEDICAL APPLICATIONS	PENDING
T4342- 14503EP01	EP	07760334.8		FILTRATION SYSTEM FOR PREPARATION OF FLUIDS FOR MEDICAL APPLICATIONS	PENDING
T4342- 14123US01	US	11/951,142		FLUID LINE CONNECTOR SAFETY DEVICE	PENDING
T4342- 14401US01	US	12/049,903		PRESSURE MEASUREMENT DEVICE	PENDING

BCS 65773 1.6

**MDS Patents and Applications**

<b>Title</b>	<b>Serial</b>	<b>Filed</b>	<b>Patent No.</b>	<b>Issued</b>
FLOW-THROUGH TREATMENT DEVICE	08/373,598	17-Jan-95	5,643,190	1-Jul-97
BLOW MOLDED VENOUS DRIP CHAMBER FOR HEMODIALYSIS	07/876,041	4/30/1992	5,328,461	12-Jul-94
BLOW MOLDED VENOUS DRIP CHAMBER FOR HEMODIALYSIS	08/059,316	11-May-93	5,330,425	19-Jul-94
PUMP SEGMENT HAVING CONNECTED PARALLEL BRANCH LINE	08/170,534	20-Dec-93	5,360,395	1-Nov-94
BLOOD AIR TRAP CHAMBER	08/254,428	6-Jun-94	5,520,640	28-May-96
PUMP SEGMENT HAVING CONNECTED PARALLEL BRANCH LINE	94118943.3	1-Dec-94	EP663,216 FR DE	
BLOOD CHAMBER	08/451,007	25-May-95	5,769,815	6/23/1998
REUSABLE BLOOD LINES	08/504,457	20-Jul-95	5,772,624	6/30/1998
FLOW-THROUGH TREATMENT DEVICE	08/771,246	20-Dec-96	5,817,043	6-Oct-98
BLOOD SET PRIMING METHOD & APPARATUS	08/717,849	23-Sep-96	5,895,368	20-Apr-99
PUMP SEGMENT HAVING CONNECTED PARALLEL BRANCH LINE	08/850,277	5-May-97	6,440,095	8/27/2002
RESUABLE BLOOD LINES	08/892,685	14-Jul-97	6,165,149	26-Dec-00
AUTOMATIC PRIMING OF BLOOD SETS	08/954,804	21-Oct-97	5,951,870	14-Sep-99
SEPARABLE HEMODIALYSIS SYSTEM	08/937,121	24-Sep-97	5,824,213	20-Oct-98
SEPARABLE HEMODIALYSIS SYSTEM CONNECTED BY A MOVABLE ARM	08/941,729	1-Oct-97	5,895,571	20-Apr-99
FLOW-THROUGH TREATMENT DEVICE	09/038,375	11-Mar-98	6,299,589	Oct. 9, 2001
BLOOD SET PRIMING METHOD AND APPARATUS	09/038,616	11-Mar-98	6,290,665	Sept. 18, 2001
REVERSING FLOW BLOOD PROCESSING SYSTEM	09/095,873	6/10/1998	6,177,049	23-Jan-01
SUBCUTANEOUS ACCESS METHOD - VASCA	09/318,419	May 25, 1999	6,544,214	4/8/2003

Title	Serial	Filed	Patent No.	Issued
DIALYSIS PRESSURE MONITORING WITH CLOT SUPPRESSION	09/203,274	1-Dec-98	6,383,158	7-May-02
BUBBLE TRAP WITH FLAT SIDE	09/203,013	1-Dec-98	5,980,741	9-Nov-99
BUBBLE TRAP WITH FLAT SIDE	09/073,303	5-May-98	6,010,623	4-May-00
BUBBLE TRAP CHAMBER	09/094,417	6/9/1998	6,019,824	2/1/2000
BUBBLE TRAP WITH DIRECTED HORIZONTAL FLOW AND METHOD OF USING	09/207,229	8-Dec-98	6,117,342	September 12, 2000
DIALYSIS PRESSURE MONITORING WITH CLOT SUPPRESSION	09/957,990	21-Sep-01	6,775,801	6/29/2004
REVERSING FLOW BLOOD PROCESSING SYSTEM HAVING REDUCED CLOTTING POTENTIAL	09/325,219	3-Jun-99	6,319,465	Nov. 20, 2001
BLOOD SET PRIMING METHOD AND APPARATUS	09/378,977	23-Aug-99	6,387,069	14-May-02
BUBBLE TRAP HAVING COMMON INLET/OUTLET TUBE	09/320,295	26-May-99	6,051,134	4/18/2000
AUTOMATIC PRIMING OF BLOOD SETS	09/359,366	7/22/99	6,187,198	13-Feb-01
TURBO CAP SET FOR BLOOD PROCESSING	09/432,555	3-Nov-99	6,517,508	Feb. 11, 2003
MEASURING VASCULAR ACCESS PRESSURE	09/479,962	January 10, 2000	6,346,084	2/12/2002
BLOOD SET AND CHAMBER	09/472,316	22-Dec-99	6,206,954	March 27, 2001
Japan AUTOMATIC PRIMING OF BLOOD SETS	2000-516761	April 12, 2000		
Europe AUTOMATIC PRIMING OF BLOOD SETS	98951060.7	13-Oct-98		
Canada AUTOMATIC PRIMING OF BLOOD SETS	CA19982306829	13-Oct-98	2,306829	
Australia AUTOMATIC PRIMING OF BLOOD SETS	96950/98	13 Oct. 1998	743310	5/9/2002
ARTERIAL & VENOUS BLOOD TUBING SET-AUTOPRIME	09/619,448	19-Jul-00	6,344,139	Feb. 5, 2002
DIALYSIS PRESSURE	09/624,852	July 25,	6,514,225	Feb. 4, 2003

Title	Serial	Filed	Patent No.	Issued
MONITORING WITH CLOT SUPPRESSION		2000		
SET FOR BLOOD PROCESSING-IV LINE MONITORING	10/076,192	Feb. 13, 2002	7,025,750	11-Apr-06
REVERSING FLOW BLOOD PROCESSING SYSTEM	09/627,821	28-Jul-00	6,596,234	7/22/2003
REUSABLE BLOOD LINES	09/664,432	18-Sep-00	6,620,119	Sept. 16, 2003
Europe REVERSING FLOW BLOOD PROCESSING SYSTEM	99928438.3	7-Jun-02		
AUTOMATIC PRIMING OF BLOOD SETS	09/977,711	Oct 15, 2001	6,464,878	October 15, 2002
NEW REVERSO	10/051,465	1/18/2002	6,695,807	2/24/2004
BLOOD SET PRIMING METH. & APP.	10/062,570	Feb. 5, 2002	7,166,084	Jan. 23, 2007
REUSABLE BLOOD LINES	10/313,695	12/6/2002	6,666,839	12/23/2003
Europe BLOOD LEAK MONITORING METHOD (VENOUS AIR DETECTOR)	11/176,912	7-Jul-05		
Japan BLOOD FLOW REVERSING SYSTEM	2003-561693	18 Jan. 2002		
Europe BLOOD FLOW REVERSING SYSTEM	03713248.7	18 Jan. 2002		
3D CLAMPABLE VALVE FLOW REVERSING SYSTEM	JP2006718215	13.01.2006		
3D CLAMPABLE VALVE FLOW REVERSING SYSTEM	EP06718215.4	13.01.2006		
SL2 DIALYZER HOLDER SALES DIALYZER HOLDER	11/416,371	1-May-06		
SET FOR BLOOD PROCESSING-TURBO	11/371,418	9-Mar-06		
BLOOD SET PRIMING METHOD AND APPARATUS	11/607,407	12/1/2006		
DOCKING PORTS FOR MEDICAL FLUID SETS	08/810,361	3-Mar-97	5,983,947	16-Nov-99
BLOOD LEAK MONITORING METHOD AND APPARATUS P529 CA	2,613,139			
BLOOD LEAK	2008-520,298			

Title	Serial	Filed	Patent No.	Issued
MONITORING METHOD P530 JP				
BLOOD LEAK MONITORING METHOD P531 EP	06774320.3			
BLOOD LEAK MONITORING APPARATUS P538 DIV	12/098,215	4-Apr-08		
UNIVERSAL CONNECTOR- MEDIC	07/538,236	13-Jun-90	5,071,413	12/10/1991
GUARDED WINGED NEEDLE ASSEMBLY	07/562,419	7/30/1990	5,112,311	12-May-92
Europe GUARDED WINGED NEEDLE ASSEMBLY	89911492-0	9/29/1989	436646	Aug. 31, 1994
Japan GUARDED WINGED NEEDLE ASSEMBLY	510737/89	9/29/1989	1,749,083	8-Apr-93
Japan UNIVERSAL CONNECTOR	511284/1991	6-Jun-91	3,103,938	1-Sep-00
Canada UNIVERSAL CONNECTOR	2,064,749-3	6-Jun-91	2,064,749	18-Oct-94
GUARDED WINGED NEEDLE ASSEMBLY	948,348	21-Sep-92	5,266,072	30-Nov-93
LUER CONNECTOR WITH INTEGRAL CLOSURE	08/002,778	8-Jan-93	5,385,372	31-Jan-95
PROTECTOR FOR NEEDLE	08/714,959	17-Sep-96	5,772,638	6/30/1998
GUARDED WINGED NEEDLE ASSEMBLY (METHOD)	08/198,348	18-Feb-94	5,433,703	18-Jul-95
NEEDLE PROTECTOR SHEATH	08/275,880	15-Jul-94	5,562,636	8-Oct-96
NEEDLE PROTECTOR SHEATH	08/420,700	11-Apr-95	5,562,637	8-Oct-96
Europe NEEDLE PROTECTOR SHEATH	95110450.4	5-Jul-95	0692 217	1-Jul-99
Europe NEEDLE PROTECTOR SHEATH	98109151.5	5/7/1995	IT GB FR DE CH BE 6 0872,256	2/1/2002
Japan NEEDLE PROTECTOR SHEATH	201534/1995	14-Jul-95	3,702,408	29-Jul-05
Canada NEEDLE PROTECTOR SHEATH	2,153,091	30-Jun-95	Issue fee paid	
NEEDLE STORAGE APPARATUS AND METHOD	08/538,460	3-Oct-95	5,704,917	6-Jan-98
EASY USE NEEDLE	08/584,451	January 11,	5,704,924	6-Jan-98

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Title	Serial	Filed	Patent No.	Issued
PROTECTOR SHEATH		1996		
NEEDLE PROTECTOR SHEATH	08/662,685	13-Jun-96	5,951,529	14-Sep-99
MEDICAL CONNECTOR WITH INTEGRAL CLOSURE	08/783,689	1/15/1997	5,881,774	16-Mar-99
Japan EASY USE NEEDLE PROTECTOR SHEATH	525,246/1997	20-Dec-96	3,809,563	2-Jun-06
Australia EASY USE NEEDLE PROTECTOR SHEATH	13,536/97	20-Dec-96	717,410	3/23/2000
SQUEEZE CLAMP FOR FLEXIBLE TUBING	08/943,672	3-Oct-97	6,089,527	18-Jul-00
SET WITH ANGLED NEEDLE	09/116/422	7/15/1998	6,267,750	31-Jul-01
SQUEEZE CLAMP	09/238,767	28-Jan-99	6,113,062	5-Sep-00
NEEDLE POINT PROTECTION SHEATH	09/248,654	11-Feb-99	6,042,570	28-Mar-00
NEEDLE PROTECTOR SHEATH	09/321,374	27-May-99	6,595,965	7/22/2003
SQUEEZE CLAMP FOR FLEXIBLE TUBING	09/396,837	September 15, 1999	6,196,519	6-Mar-01
NEEDLE POINT PROTECTION SHEATH	09/500,567	9-Feb-00	6,193,694	February 27, 2001
Canada SQUEEZE CLAMP FOR FLEXIBLE TUBING	2,308,052	22-Sep-98	2,308,052	6/3/2003
Japan SQUEEZE CLAMP FOR FLEXIBLE TUBING	2000-515134	November 24, 2000		
TUBULAR INTRAVENOUS SET-WING-ABLE MASTERGUARD	09/541282	3-Apr-00	6,517,522	Feb. 11, 2003
SET WITH ANGLED NEEDLE	09/606,578	28-Jun-00	6,530,911	3/11/03
TUBULAR INTRAVENOUS SET-WING-ABLE MASTERGUARD	09/680,821	October 10, 2000	6,616,635	9/9/2003
TAPERED INTRAVENOUS CANNULA	09/906,539	7/16/2001	6,685,680	2/3/2004
PENETRABLE WALL AND INNER SEAL	10/613,922	3-Jul-03	7,056,308	6-Jun-06
MEDICAL DEVICE W/ELASTOMERIC, PENETRABLE WALL	11/081,484	16-Mar-05		
SHORT-WINGED NEEDLE AND NEEDLE GUARAD	11/407,716	20-Apr-06		

Title	Serial	Filed	Patent No.	Issued
INJECTION SITE FOR MALE LUER-LOCKSITE	10/264,863	10/4/2002	7,025,744	April 11, 2006
INJECTION SITE FOR MALE LUER OR OTHER TUBULAR CONNECTOR-LOCKSITE	10/423,484	April 25, 2003		
INJECTO CAP	11/124,701	8-May-05		
Japan INJECTION SITE FOR MALE LUER OR OTHER TUBULAR CONNECTOR LOCKSITE	2005-501 078	4/4/2005		
Europe INJECTION SITE FOR MALE LUER-LOCKSITE	03808128.7	10-Feb-03	1562657	
CLOSURE FOR TUBULAR ACCESS PORT-POKER.CAP	11/247,93 1	October 11, 2005		
Japan CLOSURE NEEDLE PROTECTOR SHEATH	114734/2005		3843414	25-Aug-06
MEDICAL TUBING SET SHEATH	11/495,046	7/28/2006		
CLOSURE FOR TUBULAR ACCESS PORT	2008-535631	10-Oct-06		
CLOSURE FOR TUBULAR ACCESS PORT	06825730.2	10-Oct-06		
NEEDLE SECUREMENT DEVICE	11/431,137	9-May-06		
FLUID FLOW CONNECTOR PERMITTING FORCEFUL LATERAL SEPARATION	11/810,427	5-Jun-07		
FLUID FLOW CONNECTOR PERMITTING FORCEFUL LATERAL SEPARATION	PCT/US08/64942	28-May-08		
MEDICAL TUBING SET SHEATH	PCT/US07/15868	12-Jul-07		
CLOSURE FOR TUBULAR ACCESS PORT	12/098,199	4-Apr-08		

Trademarks

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<b>ACCESS ALERT</b> Country: European Community Classes: 10	Registered 19918-024/116	2416048 2416048	18-Oct-2001 18-Oct-2001	First Renewal	18-Oct-2011
<b>ACCESS ALERT</b> Country: Mexico Classes: 10	Registered 19918-024/042	516242 834595	09-Nov-2001 31-May-2004	First Renewal Proof of Use	09-Nov-2011 09-Nov-2011
<b>ACCESS ALERT</b> Country: United States of America Classes: 10	Registered 19918-024/	76/256339 2,547,174	14-May-2001 12-Mar-2002	First Renewal Aff of Use - Recurring	12-Mar-2012 12-Mar-2012
<b>BUTTONHOLE</b> Country: United States of America Classes: 10	Registered 19918-023/	76/330472 2,694,959	26-Oct-2001 11-Mar-2003	First Renewal Aff of Use - Recurring	11-Mar-2013 11-Mar-2013
<b>FINGERSHIELD</b> Country: United States of America Classes: 10	Registered 19918-025/	76/368221 2,872,892	07-Feb-2002 10-Aug-2004	All of Use - 6 Year	10-Aug-2010
<b>LIFEMATE</b> Country: European Community Classes: 10	Registered 19918-005/116	1546456 1546456	08-Mar-2000 08-Mar-2000	First Renewal	07-Mar-2010

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<b>LIFEMATE (LOGO)</b> Country: European Community Classes: 10	Registered 19918-004/116	1546837 1546837	08-Mar-2000 08-Mar-2000	First Renewal	07-Mar-2010
<b>LIFESTREAM</b> Country: European Community Classes: 10	Registered 19918-036/116	877092 877092	15-Jul-1998 26-Aug-1999	Next Renewal	31-Aug-2018
<b>LOCKSITE</b> Country: United States of America Classes: 10	Registered 19918-019/	76/489216 3,265,436	11-Feb-2003 17-Jul-2007	Aff of Use - 6 Year	17-Jul-2013
<b>MASTERGEL</b> Country: United States of America Classes: 5	Registered 19918-022/	78/458430 3,308,225	28-Jul-2004 09-Oct-2007	Aff of Use - 6 Year	09-Oct-2013
<b>MASTERGUARD</b> Country: European Community Classes: 10	Registered 19918-030/116	701912 701912	12-Dec-1997 12-Dec-1997	Next Renewal	31-Dec-2017
<b>MASTERGUARD</b> Country: Mexico Classes: 10	Registered 19918-030/042	318343 569820	19-Dec-1997 19-Dec-1997	Next Renewal	19-Dec-2017
<b>MASTERGUARD</b> Country: United States of America Classes: 10	Registered 19918-030/	75/000920 2,162,400	03-Oct-1995 02-Jun-1998	Next Renewal Aff of Use - Recurring	02-Jun-2018 02-Jun-2018

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<b>MASTERLOCK</b> Country: United States of America Classes: 10	Allowed 19918-018/	78/931548	18-Jul-2006	Third EXT due in IM Use or Extension Due IM	25-May-2009 25-May-2009
<b>MASTERSEAL</b> Country: European Community Classes: 10	Registered 19918-035/116	994962 994962	19-Nov-1998 31-Jan-2000	Next Renewal	19-Nov-2018
<b>MASTERSEAL</b> Country: Mexico Classes: 10	Registered 19918-035/042	355767 606679	27-Nov-1998 27-Nov-1998	Next Renewal	27-Nov-2018
<b>MASTERSEAL</b> Country: United States of America Classes: 10	Registered 19918-035/	75/492635 2,492,985	28-May-1998 25-Sep-2001	First Renewal Aff of Use - Recurring	25-Sep-2011 25-Sep-2011
<b>MEDIC</b> Country: European Community Classes: 10	Registered 19918-033/116	701938 701938	12-Dec-1997 12-Dec-1997	Next Renewal	31-Dec-2017
<b>MEDIC</b> Country: United States of America Classes: 10	Registered 19918-033/	74/454253 1,855,659	04-Nov-1993 27-Sep-1994	Next Renewal Aff of Use - Recurring	27-Sep-2014 27-Sep-2014
<b>MEDISYSTEMS</b> Country: Germany Classes: 10	Registered 19918-017/016	399774168.2/10 39974168	25-Nov-1999 27-Apr-2000	Next Renewal	25-Nov-2019

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MEDISYSTEMS Country: Italy Classes: 10	Registered 19918-017/031	RM200C00462 896885	28-Jan-2000 06-Nov-2003	First Renewal	28-Jan-2010
MEDISYSTEMS Country: Mexico Classes: 10	Registered 19918-017/042	318361 569829	19-Dec-1997 19-Dec-1997	Next Renewal	19-Dec-2017
MEDISYSTEMS Country: United States of America Classes: 10	Registered 19918-017/	75/443438 2,322,952	02-Mar-1998 29-Feb-2000	First Renewal Aff of Use - Recurring	28-Feb-2010 28-Feb-2010
MEDISYSTEMS (LOGO) Country: European Community Classes: 10	Registered 19918-029/116	1269950 1269950	31-Aug-1999 03-Oct-2000	First Renewal	31-Aug-2009
MISCELLANEOUS DESIGN - MEDISYSTEMS (LOGO) Country: United States of America Classes: 10	Registered 19918-029/	76/152564 2,500,286	24-Oct-2000 23-Oct-2001	First Renewal Aff of Use - Recurring	23-Oct-2011 23-Oct-2011
NxRx Country: United States of America Classes: 42	Pending 19918-013/	77/544488	12-Aug-2008	DEADLINE TO RESP TO 6M O.A.	24-May-2009
NXSTAGE Country: Canada	Registered 19918-002/008	1049861 577,543	07-Mar-2000 18-Mar-2003	First Renewal	18-Mar-2018

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<b>NXSTAGE</b> Country: European Community Classes: 10	Registered 19918-002/116	1557586 1557586	08-Mar-2000 08-Mar-2000	First Renewal	07-Mar-2010
<b>NXSTAGE</b> Country: Japan Classes: 10	Registered 19918-002/032	2000-024234 4550196	13-Mar-2000 08-Mar-2002	First Renewal	08-Mar-2012
<b>NXSTAGE</b> Country: United States of America Classes: 10	Registered 19918-002/	75/800711 2,565,759	15-Sep-1999 30-Apr-2002	First Renewal Aff of Use - Recurring	30-Apr-2012 30-Apr-2012
<b>NXSTAGE (LOGO)</b> Country: Canada	Registered 19918-003/008	1049860 576,481	07-Mar-2000 26-Feb-2003	First Renewal	26-Feb-2018
<b>NXSTAGE (LOGO)</b> Country: European Community Classes: 10	Registered 19918-003/116	1546563 1546563	08-Mar-2000 08-Mar-2000	First Renewal	07-Mar-2010
<b>NXSTAGE (LOGO)</b> Country: Japan Classes: 10	Registered 19918-003/032	2000-024235 4539036	13-Mar-2000 25-Jan-2002	First Renewal	25-Jan-2012
<b>NXSTAGE (LOGO)</b> Country: United States of America Classes: 10	Registered 19918-003/	75/800705 2,565,758	15-Sep-1999 30-Apr-2002	First Renewal Aff of Use - Recurring	30-Apr-2012 30-Apr-2012

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<b>POINTGUARD</b> Country: European Community Classes: 10	Registered 19918-031/116	3586013 3586013	16-Dec-2003 28-Feb-2005	First Renewal	16-Dec-2013
<b>PROTECTING YOU... WHILE YOU CARE FOR YOUR PATIENT</b> Country: United States of America Classes: 10	Registered 19918-034/	75/542481 2,601,448	25-Aug-1998 30-Jul-2002	First Renewal Aff of Use -- Recurring	30-Jul-2012 30-Jul-2012
<b>READYSET</b> Country: European Community Classes: 10	Registered 19918-032/116	701870 701870	12-Dec-1997 12-Dec-1997	Next Renewal	12-Dec-2017
<b>READYSET</b> Country: Mexico Classes: 10	Registered 19918-032/042	318363 569831	19-Dec-1997 19-Dec-1997	Next Renewal	19-Dec-2017
<b>READYSET</b> Country: United States of America Classes: 10	Registered 19918-032/	74/454340 1,850,632	04-Nov-1993 23-Aug-1994	Next Renewal	23-Aug-2014
<b>REVERSO</b> Country: United States of America Classes: 10	Registered 19918-021/	78/458427 3,412,661	28-Jul-2004 15-Apr-2008	Aff of Use -- 6 Year	15-Apr-2014

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<b>SAMESITE</b> Country: United States of America Classes: 10	Registered 19918-027/	75/701676 2,439,340	10-May-1999 27-Mar-2001	First Renewal Aff of Use -- Recurring	27-Mar-2011 27-Mar-2011
<b>SLIPCOAT</b> Country: Mexico Classes: 10	Registered 19918-036/042	318362 569830	19-Dec-1997 19-Dec-1997	Next Renewal	19-Dec-2017
<b>STERIPICK</b> Country: United States of America Classes: 10	Registered 19918-016/	77/159629 3,496,624	18-Apr-2007 02-Sep-2008	Aff of Use -- 6 Year	02-Sep-2014
<b>STREAMLINE</b> Country: United States of America Classes: 10	Registered 19918-026	76/118725 3,127,215	23-Aug-2000 08-Aug-2006	Aff of Use -- 6 Year	08-Aug-2012
<b>TWINPACK+</b> Country: United States of America Classes: 10	Registered 19918-020/	76/546380 2,957,785	22-Sep-2003 31-May-2005	Aff of Use -- 6 Year	31-May-2011
<b>VIRAGUARD</b> Country: United States of America Classes: 10	Registered 19918-028/	76/315038 2,712,842	20-Sep-2001 06-May-2003	First Renewal Aff of Use -- Recurring	06-May-2013 06-May-2013

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