

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

ETAS ID: TM437071

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
ASAHI KASEI MEDICAL CO., LTD.	FORMERLY ASAHI KASEI KURARAY MEDICAL CO., LTD.	05/04/2012	Corporation: JAPAN
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	NXSTAGE MEDICAL, INC.		
<b>Street Address:</b>	350 Merrimack Street		
<b>City:</b>	Lawrence		
<b>State/Country:</b>	MASSACHUSETTS		
<b>Postal Code:</b>	01843		
<b>Entity Type:</b>	Corporation: DELAWARE		
<b>Name:</b>	MEDISYSTEMS CORPORATION		
<b>Street Address:</b>	439 South Union Street		
<b>Internal Address:</b>	5th Floor		
<b>City:</b>	Lawrence		
<b>State/Country:</b>	MASSACHUSETTS		
<b>Postal Code:</b>	01843		
<b>Entity Type:</b>	Corporation: WASHINGTON		
<b>Name:</b>	MEDISYSTEMS SERVICES CORPORATION		
<b>Street Address:</b>	439 South Union Street		
<b>Internal Address:</b>	5th Floor		
<b>City:</b>	Lawrence		
<b>State/Country:</b>	MASSACHUSETTS		
<b>Postal Code:</b>	01843		
<b>Entity Type:</b>	Corporation: NEVADA		
<b>PROPERTY NUMBERS Total: 24</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	1855659	MEDIC	
<b>Registration Number:</b>	1850632	READYSET	
<b>Registration Number:</b>	2162400	MASTERGUARD	
<b>Registration Number:</b>	2322952	MEDISYSTEMS	

TRADEMARK

Property Type	Number	Word Mark
Registration Number:	2492985	MASTERSEAL
Registration Number:	2601448	PROTECTING YOU . . . WHILE YOU CARE FOR
Registration Number:	2439340	SAMESITE
Registration Number:	2565758	NXSTAGE
Registration Number:	2565759	NXSTAGE
Registration Number:	3127215	STREAMLINE
Registration Number:	2500286	
Registration Number:	2547174	ACCESS ALERT
Registration Number:	2712842	VIRAGUARD
Registration Number:	2694959	BUTTONHOLE
Registration Number:	2872892	FINGERSHIELD
Registration Number:	3265436	LOCKSITE
Registration Number:	2957785	TWINPACK+
Registration Number:	3496624	STERIPICK
Registration Number:	3822498	NXRX
Registration Number:	3412661	REVERSO
Registration Number:	3308225	MASTERGEL
Serial Number:	78931548	MASTERLOCK
Registration Number:	1765239	POINTGUARD
Registration Number:	2341969	LIFESTREAM

#### CORRESPONDENCE DATA

Fax Number: 2023187707

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

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Correspondent Name: Potomac Law Group PLLC

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Address Line 4: Washington, D.C. 20015

NAME OF SUBMITTER:	Christine Arthur, paralegal
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SIGNATURE:	/Christine Arthur/
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DATE SIGNED:	07/28/2017
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#### Total Attachments: 8

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IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

RELEASE OF PATENT SECURITY INTEREST

WHEREAS, NXSTAGE MEDICAL, INC., a Delaware corporation with offices at 439 South Union Street, 5th Floor, Lawrence, MA 01843; EIR MEDICAL, INC., a Massachusetts corporation with offices at 439 South Union Street, 5th Floor, Lawrence, MA 01843; MEDISYSTEMS CORPORATION, a Washington corporation with offices at 439 South Union Street, 5th Floor, Lawrence, MA 01843; and MEDISYSTEMS SERVICES CORPORATION, a Nevada corporation with offices at 439 South Union Street, 5th Floor, Lawrence, MA 01843, granted security interests in the United States patent applications and granted patents shown on the attached Schedule A and the foreign patent applications and granted patents listed in the security interest agreement(s) (collectively the "Patents") to ASAHI KASEI MEDICAL CO., LTD. (f/k/a ASAHI KASEI KURARAY MEDICAL CO., LTD.), which were recorded with the United States Patent and Trademark Office at Reel/Frame 022804/0496 on June 10, 2009 and at Reel/Frame 024066/0201 on March 11, 2010.

WHEREAS, ASAHI KASEI KURARAY MEDICAL CO., LTD., a Japan corporation, with offices at 1-105, Kanda Jinbocho, Chiyoda-Ku, Tokyo, Japan 101-8101 (the "Assignor") desires to release its rights as a mortgagee, pledgee, and secured party in connection with the Patents under the aforementioned security agreements, and NXSTAGE MEDICAL, INC., EIR MEDICAL, INC., MEDISYSTEMS SERVICES CORPORATION, and MEDISYSTEMS SERVICES CORPORATION (the "Assignees") desire to accept the release of the security interest and lien on the Patents.

NOW THEREFORE, for good and valuable consideration paid by Assignees, receipt of which is hereby acknowledged, Assignor hereby releases the mortgage, pledge, and security interest in and to the Patents, releases all other rights it may have under said security agreements with respect to the Patents, and cancels such agreements with respect to the Patents, effective as of the date written below.

IN WITNESS WHEREOF, the Assignor has caused this Release to be duly executed.

Date: 5/4/12

ASAHI KASEI MEDICAL CO., LTD.  
(f/k/a ASAHI KASEI KURARAY MEDICAL CO., LTD.)

By: 

Name: Bradley K. Edmister

Title: Attorney-in-fact

# SCHEDULE A

## U.S. PATENTS

Title	Patent No./Application No.
UNIVERSAL CONNECTOR	5071413
GUARDED WINGED NEEDLE ASSEMBLY	5112311
BLOW MOLDED VENOUS DRIP CHAMBER FOR HEMODIALYSIS	5328461
GUARDED WINGED NEEDLE ASSEMBLY	5266072
LUER CONNECTOR WITH INTEGRAL CLOSURE	5385372
BLOW MOLDED VENOUS DRIP CHAMBER FOR HEMODIALYSIS	5330425
PUMP CONDUIT SEGMENT HAVING CONNECTED, PARALLEL BRANCH LINE	5360395
GUARDED WINGED NEEDLE ASSEMBLY	5433703
BLOOD AIR TRAP CHAMBER	5520640
NEEDLE PROTECTOR SHEATH	5562636
FLOW-THROUGH TREATMENT DEVICE	5643190
NEEDLE PROTECTOR SHEATH	5562637
BLOOD CHAMBER WITH INTEGRAL PROJECTIONS	5769815
REUSABLE BLOOD LINES	5772624
NEEDLE STORAGE APPARATUS AND METHOD	5704917
EASY USE NEEDLE PROTECTOR SHEATH	5704924
NEEDLE PROTECTOR SHEATH	5951529
PROTECTOR FOR NEEDLE	5772638
BLOOD SET PRIMING METHOD AND APPARATUS	5895368
FLOW-THROUGH TREATMENT DEVICE	5817043
MEDICAL CONNECTOR WITH INTEGRAL CLOSURE	5881774
DOCKING PORTS FOR MEDICAL FLUID SETS	5983947
PUMP SEGMENT HAVING CONNECTED, PARRALLEL BRANCE LINE	6440095
REUSABLE BLOOD LINES	6165149
SEPARABLE HEMODIALYSIS SYSTEM	5824213
SEPARABLE HEMODIALYSIS SYSTEM CONNECTED BY A MOVABLE ARM	5895571
SQUEEZE CLAMP FOR FLEXIBLE TUBING	6089527
AUTOMATIC PRIMING OF BLOOD SETS	5951870
HEMOFILTRATION SYSTEM INCLUDING ULTRAFILTRATE PURIFICATION AND RE-INFUSION SYSTEM	6582385
FLOW-THROUGH TREATMENT METHOD	6299589
BLOOD SET PRIMING METHOD AND APPARATUS	6290665
BUBBLE TRAP WITH FLAT SIDE	6010623
BUBBLE TRAP CHAMBER	6019824
REVERSING FLOW BLOOD PROCESSING SYSTEM	6177049
SET WITH ANGLED NEEDLE	6267750
METHODS, SYSTEMS, AND KITS FOR THE EXTRACORPOREAL PROCESSING OF BLOOD	7004924
BUBBLE TRAP WITH FLAT SIDE HAVING MULTIPURPOSE SUPPLEMENTAL PORTS	5980741
DIALYSIS PRESSURE MONITORING WITH CLOT SUPPRESSION	6383158
BUBBLE TRAP WITH DIRECTED HORIZONTAL FLOW AND METHOD OF USING	6117342

Title	Patent No./Application No.
SQUEEZE CLAMP	6113062
NEEDLE POINT PROTECTION SHEATH	6042570
SUBCUTANEOUS ACCESS NEEDLE AND METHOD	6544214
BUBBLE TRAP HAVING COMMON INLET/OUTLET TUBE	6051134
NEEDLE PROTECTOR SHEATH	6595965
REVERSING FLOW BLOOD PROCESSING SYSTEM HAVING REDUCED CLOTTING POTENTIAL	6319465
AUTOMATIC PRIMING OF CONNECTED BLOOD SETS	6187198
BLOOD SET PRIMING METHOD AND APPARATUS	6387069
SQUEEZE CLAMP FOR FLEXIBLE TUBING	6196519
SET FOR BLOOD PROCESSING	6517508
BLOOD SET AND CHAMBER	6206954
MEASURING VASCULAR ACCESS PRESSURE	6346084
NEEDLE POINT PROTECTION SHEATH	6193694
FLOW-THROUGH PERITONEAL DIALYSIS SYSTEMS AND METHODS WITH ON-LINE DIALYSIS SOLUTION REGENERATION	6254567
EXTRACORPOREAL CIRCUITS FOR PERFORMING HEMOFILTRATION EMPLOYING PRESSURE SENSING WITHOUT AN AIR INTERFACE	6589482
FLUID REPLACEMENT SYSTEMS AND METHODS FOR USE IN HEMOFILTRATION	6638477
FLUID PROCESSING SYSTEMS AND METHODS USING EXTRACORPOREAL FLUID FLOW PANELS ORIENTED WITHIN A CARTRIDGE	6579253
LAYERED FLUID CIRCUIT ASSEMBLIES AND METHODS FOR MAKING THEM	6554789
BLOOD TREATMENT SYSTEMS AND METHODS THAT MAINTAIN STERILE EXTRACORPOREAL PROCESSING CONDITIONS	6830553
SYNCHRONIZED VOLUMETRIC FLUID BALANCING SYSTEMS AND METHODS	6638478
SYSTEMS AND METHODS FOR CONTROLLING BLOOD FLOW AND WASTE FLUID REMOVAL DURING HEMOFILTRATION	6595943
TUBULAR INTRAVENOUS SET	6517522
SET WITH ANGLED NEEDLE	6530911
ARTERIAL AND VENOUS BLOOD TUBING SET	6344139
DIALYSIS PRESSURE MONITORING WITH CLOT SUPPRESSION	6514225
REVERSING FLOW BLOOD PROCESSING SYSTEM	6596234
REUSABLE BLOOD LINES	6620119
TUBULAR INTRAVENOUS SET	6616635
DEVICES FOR WARMING FLUID AND METHODS OF USE	6572641
FLUID PROCESSING SYSTEMS AND METHODS USING EXTRACORPOREAL FLUID FLOW PANELS ORIENTED WITHIN A CARTRIDGE	6852090
HEMOFILTRATION SYSTEM	6955655
METHOD AND APPARATUS FOR LEAK DETECTION IN A FLUID LINE	6572576
DEVICES FOR POTTING A FILTER FOR BLOOD PROCESSING	6702561
DEVICES FOR STERILE-FILTERING FLUID AND METHODS OF USE	6649063
TAPERED INTRAVENOUS CANNULA	6685680
HERMETIC FLOW SELECTOR VALVE	6743193

<b>Title</b>	<b>Patent No./Application No.</b>
AUTOMATIC PRIMING OF BLOOD SETS	6464878
DIESEL PARTICULATE FILTERS	6673414
METHOD AND APPARATUS FOR MACHINE ERROR DETECTION BY COMBINING MULTIPLE SENSOR INPUTS	US20030128125 10037254
METHOD AND APPARATUS FOR LEAK DETECTION IN BLOOD CIRCUITS COMBINING EXTERNAL FLUID DETECTION AND AIR INFILTRATION DETECTION	7040142
SYSTEMS AND METHODS FOR PERFORMING BLOOD PROCESSING AND/OR FLUID EXCHANGE PROCEDURES	6979309
BLOOD FLOW REVERSING SYSTEM	6695807
BLOOD SET PRIMING METHOD AND APPARATUS	7166084
SET FOR BLOOD PROCESSING	7025750
TURBO DECODER EXTRINSIC NORMALIZATION	6775801
INJECTION SITE FOR MALE LUER OR OTHER TUBULAR CONNECTOR	7025744
REUSABLE BLOOD LINES	6666839
DUAL ACCESS SPIKE FOR INFUSATE BAGS	7470265
METHOD AND APPARATUS FOR MANUFACTURING FILTERS	6872346
INJECTION SITE FOR MALE LUER OR OTHER TUBULAR CONNECTOR	US20040068239 10423484
METHOD AND APPARATUS FOR LEAK DETECTION IN A FLUID LINE	7087033
WASTE BALANCING FOR EXTRACORPOREAL BLOOD TREATMENT SYSTEMS	7686778
METHODS AND APPARATUS FOR LEAK DETECTION IN BLOOD PROCESSING SYSTEMS	8002727
FILTRATION SYSTEM PREPARATION OF FLUIDS FOR MEDICAL APPLICATIONS	US20080210606 10585675
MEDICAL DEVICE WITH ELASTOMERIC PENETRABLE WALL AND INNER SEAL	7056308
HEMOFILTRATION SYSTEMS AND METHODS THAT MAINTAIN STERILE EXTRACORPOREAL PROCESSING CONDITIONS	7473238
FLUID CIRCUITS, SYSTEMS, AND PROCESSES FOR EXTRACORPOREAL BLOOD PROCESSING	7214312
VOLUMETRIC FLUID BALANCE CONTROL FOR EXTRACORPOREAL BLOOD TREATMENT	7112273
FUNCTIONAL ISOLATION OF UPGRADEABLE COMPONENTS TO REDUCE RISK IN MEDICAL TREATMENT DEVICES	7771379
FLUID PROCESSING APPARATUS	7226538
MEASUREMENT OF FLUID PRESSURE IN A BLOOD TREATMENT DEVICE	7147613
NETWORK-BASED EXTRACORPOREAL BLOOD TREATMENT INFORMATION SYSTEM	US20050113734 10796898
BLOOD FLOW CONTROL IN A BLOOD TREATMENT DEVICE	US20080306426 10796899
REGISTRATION OF FLUID CIRCUIT COMPONENTS IN A BLOOD TREATMENT DEVICE	7776001
BLOOD PROCESSING MACHINE AND SYSTEM USING FLUID CIRCUIT CARTRIDGE	7300413
BLOOD PROCESSING MACHINE FLUID CIRCUIT CARTRIDGE	7338460
RENAL REPLACEMENT THERAPY DEVICE FOR CONTROLLING FLUID BALANCE OF TREATED PATIENT	7267658
MODULAR MEDICAL TREATMENT REPLACEABLE COMPONENT	7347849

<b>Title</b>	<b>Patent No./Application No.</b>
MEDICAL DEVICE WITH ELASTOMERIC PENETRABLE WALL	7569047
REMOVABLE CAP NEEDLE ACCESS SITE	US20060253103 11124701
PRESSURE DETECTOR FOR FLUID CIRCUITS	7337674
BATCH FILTRATION SYSTEM FOR PREPARATION OF STERILE FLUID FOR RENAL REPLACEMENT THERAPY	7544300
CLOSURE FOR TUBULAR ACCESS PORT	US20070093762 11247931
SET FOR BLOOD PROCESSING	US20060173395 11371418
SHORT WINGED NEEDLE AND GUARD	7591804
MOUNTING BRACKET FOR MEDICAL DEVICE	US20070252057 11416371
NEEDLE ALIGNMENT, NEEDLE SECUREMENT AND VESSEL STABILIZATION DEVICE	US20070265571 11431137
MEDICAL TUBING SET SHEATH	7892208
BLOOD TREATMENT FILTER AND METHOD OF MANUFACTURING	US20070102340 11553148
BLOOD TREATMENT DIALYZER/FILTER DESIGN TO TRAP ENTRAINED AIR IN A FLUID CIRCUIT	US20100096311 11577126
BLOOD SET PRIMING METHOD AND APPARATUS	US20070106196 11607407
FLUID, CIRCUITS, SYSTEMS, AND PROCESSES FOR EXTRACORPOREAL BLOOD PROCESSING	7419597
SYSTEMS AND METHODS FOR HANDLING AIR AND/OR FLUSHING FLUIDS IN A FLUID CIRCUIT	7588684
FLUID FLOW CONNECTOR PERMITTING FORCEFUL LATERAL SEPARATION	US20080303267 11810427
FILTRATION SYSTEM FOR PREPARATION OF FLUIDS FOR MEDICAL APPLICATIONS	US20080230450 11813472
FLUID LINE CONNECTOR SAFETY DEVICE	7758082
METHODS, DEVICES, AND SYSTEMS FOR HEMODILUTION	7776219
BLOOD TREATMENT APPARATUS	7780619
LAST-CHANCE QUALITY CHECK AND/OR AIR/PATHOGEN FILTER FOR INFUSION SYSTEMS	US20080203023 12040748
PRESSURE MEASUREMENT DEVICE	US20080228087 12049903
SAFETY FEATURES FOR MEDICAL DEVICES REQUIRING ASSISTANCE AND SUPERVISION	US20090222671 12091728
CLOSURE FOR TUBULAR ACCESS PORT	US20080187460 12098199
BLOOD LEAK MONITORING METHOD AND APPARATUS	US20080183120 12098215
FILTRATION SYSTEM FOR PREPARATION OF FLUIDS FOR MEDICAL APPLICATIONS	US20090182263 12432507
BLOOD TREATMENT DIALYZER/FILTER FOR PERMITTING GAS REMOVAL	7901579
BATCH FILTRATION SYSTEM FOR PREPARATION OF STERILE FLUID FOR RENAL REPLACEMENT THERAPY	7749393
DIALYSIS PRESSURE MONITORING WITH CLOT SUPPRESSION	6755801



IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

RELEASE OF TRADEMARK SECURITY INTEREST

WHEREAS, NXSTAGE MEDICAL, INC., a Delaware corporation with offices at 439 South Union Street, 5th Floor, Lawrence, MA 01843; EIR MEDICAL, INC., a Massachusetts corporation with offices at 439 South Union Street, 5th Floor, Lawrence, MA 01843; MEDISYSTEMS CORPORATION, a Washington corporation with offices at 439 South Union Street, 5th Floor, Lawrence, MA 01843; and MEDISYSTEMS SERVICES CORPORATION, a Nevada corporation with offices at 439 South Union Street, 5th Floor, Lawrence, MA 01843, granted security interests in the United States federal trademark applications and registrations shown on the attached Schedule A and the Foreign trademark applications and registrations shown on Schedule B (collectively the "Marks") to ASahi KASEI MEDICAL CO., LTD. (f/k/a ASahi KASEI KURARAY MEDICAL CO., LTD.), which were recorded with the United States Patent and Trademark Office at Reel/Frame 4002/0670 on June 11, 2009 and at Reel/Frame 4165/0409 on March 11, 2010.

WHEREAS, ASahi KASEI KURARAY MEDICAL CO., LTD., a Japan corporation, with offices at 1-105, Kanda Jinbocho, Chiyoda-Ku, Tokyo, Japan 101-8101 (the "Assignor") desires to release its rights as a mortgagee, pledgee, and secured party in connection with the Marks under the aforementioned security agreements, and NXSTAGE MEDICAL, INC., EIR MEDICAL, INC., MEDISYSTEMS SERVICES CORPORATION, and MEDISYSTEMS SERVICES CORPORATION (the "Assignees") desire to accept the release of the security interest and lien on the Marks.

NOW THEREFORE, for good and valuable consideration paid by Assignees, receipt of which is hereby acknowledged, Assignor hereby releases the mortgage, pledge, and security interest in and to the Marks, releases all other rights it may have under said security agreements with respect to the Marks, and cancels such agreements with respect to the Marks, effective as of the date written below.

IN WITNESS WHEREOF, the Assignor has caused this Release to be duly executed.

Date: 5/4/12


ASahi KASEI MEDICAL CO., LTD.  
(f/k/a ASahi KASEI KURARAY MEDICAL CO., LTD.)

By: 

Name: Bradley K. Edmister

Title: Attorney-in-fact

**SCHEDULE A**  
**U.S. TRADEMARKS**

<b>Mark</b>	<b>Registration/Application No.</b>
MEDIC	1855659
READYSET	1850632
MASTERGUARD	2162400
MEDISYSTEMS	2322952
MASTERSEAL	2492985
PROTECTING YOU ... WHILE YOU CARE FOR YOUR PATIENT.	2601448
SAMESITE	2439340
NXSTAGE	2565758
NXSTAGE	2565759
STREAMLINE	3127215
	2500286
ACCESS ALERT	2547174
VIRAGUARD	2712842
BUTTONHOLE	2694959
FINGERSHIELD	2872892
LOCKSITE	3265436
TWINPACK+	2957785
STERIPICK	3496624
NXRX	3822498
	77/544,488
REVERSO	3412661
MASTERGEL	3308225
MASTERLOCK	78/931,548 (Abandoned)
POINTGUARD	1765239
LIFESTREAM	2341969

# SCHEDULE B

## NON-U.S. TRADEMARKS

COUNTRY/JURISDICTION	Mark	Registration/Application No.
European CTM	ACCESS ALERT	2416048
Mexico	ACCESS ALERT	834595
European CTM	LIFEMATE	1546456
European CTM	LIFEMATE	1546837
European CTM	LIFEMATE	877092
European CTM	MASTERGUARD	701912
Mexico	MASTERGUARD	569820
European CTM	MASTERSEAL	994962
Mexico	MASTERSEAL	606679
European CTM	MEDIC	701938
Germany	MEDISYSTEMS	39974168
Italy	MEDISYSTEMS	896885
Mexico	MEDISYSTEMS	569829
European CTM	MEDISYSTEMS (Logo)	1269950
Canada	NXSTAGE	577,543
European CTM	NXSTAGE	1557586
Japan	NXSTAGE	4550196
Canada	NXSTAGE (Logo)	576,481
European CTM	NXSTAGE (Logo)	1546563
Japan	NXSTAGE (Logo)	4539036
European CTM	POINTGUARD	3586013
European CTM	READYSET	701870
Mexico	READYSET	569831
Mexico	SLIPCOAT	569830
Mexico	POINTGUARD	581843