

## TRADEMARK ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

SECOND-LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT

## CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
FENWAL, INC.		02/28/2007	CORPORATION: DELAWARE
FENWAL HOLDINGS, INC.		02/28/2007	CORPORATION: DELAWARE

## RECEIVING PARTY DATA

Name:	MORGAN STANLEY & CO. INCORPORATED
Street Address:	ONE PIERREPONT PLAZA
Internal Address:	7TH FLOOR
City:	BROOKLYN
State/Country:	NEW YORK
Postal Code:	11201
Entity Type:	CORPORATION: DELAWARE

## PROPERTY NUMBERS Total: 23

Property Type	Number	Word Mark
Registration Number:	1218845	ADSOL
Registration Number:	2772325	ALYX
Registration Number:	2142964	AMICUS
Registration Number:	1371147	AUTOPHERESIS-C
Registration Number:	0641094	BLOOD-PACK
Registration Number:	1278944	CONTINUOUS FLOW
Registration Number:	1157151	CS-3000
Registration Number:	1197286	FENWAL
Registration Number:	2690111	FENWAL
Registration Number:	0932806	GLYCEROLYTE
Registration Number:	0801961	HEMATRON
Registration Number:	2080280	HEMATYPE

TRADEMARK

REEL: 003542 FRAME: 0644

900076919

CH \$590.00 1218845

Registration Number:	2753566	INTERSOL
Registration Number:	3060634	MOBI
Registration Number:	1160839	PLASMA-GARD
Registration Number:	1082372	PLASMA-GARD
Registration Number:	1707969	PLASMACELL-C
Registration Number:	2304595	PLASMALINK
Registration Number:	2577614	POWERFUL MEDICINE
Registration Number:	2469964	SPIKESMART
Serial Number:	77048549	KINDERQ-5
Serial Number:	77048709	PEDI-STORE-5
Serial Number:	77048701	PEDIQ-5

#### CORRESPONDENCE DATA

Fax Number: (646)848-4455  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 Phone: 212-848-4455  
 Email: jlik@shearman.com  
 Correspondent Name: Scott Lyne  
 Address Line 1: 599 Lexington Avenue  
 Address Line 2: Shearman & Sterling LLP - IP Docketing  
 Address Line 4: New York, NEW YORK 10022

ATTORNEY DOCKET NUMBER:	35613/12177
NAME OF SUBMITTER:	Scott Lyne
Signature:	/SCOTT LYNE/
Date:	05/14/2007

#### Total Attachments: 27

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## SECOND-LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT

This SECOND-LIEN INTELLECTUAL PROPERTY SECURITY AGREEMENT (the "Second-Lien IP Security Agreement"), dated as of February 28, 2007, among the Persons listed on the signature pages hereof (collectively, the "Grantors"), and MORGAN STANLEY & CO. INCORPORATED, as collateral agent for the Secured Parties (in such capacity, together with its successors in such capacity, the "Collateral Agent").

A. Capitalized terms used herein and not otherwise defined herein (including terms used in the preamble and the recitals) shall have the meanings assigned to such terms in the Second-Lien Security Agreement, dated as of February 28, 2007 (the "Second-Lien Security Agreement"), among Fenwal Holdings, Inc., a Delaware corporation ("Holdings"), Fenwal, Inc., a Delaware corporation (the "Borrower"), each of the subsidiaries of the Borrower listed on the signature pages hereof (each such subsidiary, individually, a "Subsidiary Grantor" and, collectively, the "Subsidiary Grantors"; and, together with Holdings and the Borrower, collectively, the "Grantors"), and the Collateral Agent.

B. The rules of construction and other interpretive provisions specified in Sections 1.02, 1.05, 1.06 and 1.07 of the Second-Lien Credit Agreement shall apply to this Supplement, including terms defined in the preamble and recitals hereto.

C. Pursuant to Section 4.4(e) of the Second-Lien Security Agreement, each Grantor has agreed to execute or otherwise authenticate this Second-Lien IP Security Agreement for recording the Security Interest granted under the Second-Lien Security Agreement to the Collateral Agent in such Grantor's United States Registered Intellectual Property with the United States Patent and Trademark Office (the "USPTO") and the United States Copyright Office (the "USCO") and any other United States Governmental Authorities necessary or advisable to perfect the Security Interest hereunder in such United States Registered Intellectual Property.

Accordingly, the Collateral Agent and Grantors agree as follows:

**SECTION 1. Grant of Security.** Each Grantor hereby grants to the Collateral Agent, its successors and assigns, for the ratable benefit of the Secured Parties, a security interest in and continuing lien on all of such Grantor's right, title and interest in and to the following (collectively, the "Collateral"):

(a) all trademarks, service marks, domain names, trade names, corporate names, company names, business names, fictitious business names, trade styles, trade dress, logos, slogans, other source or business identifiers, whether registered or unregistered, and all registrations and applications for registration filed in connection with the foregoing, including registrations and applications for registration in the USPTO or any similar offices in any State of the United States, and all extensions or renewals thereof, and all goodwill associated therewith or symbolized thereby, including, without limitation, the United States Trademark registrations and applications set forth in Schedule A hereto,

(b) all letters patent of the United States, all registrations and recordings thereof, and all applications for letters patent of the United States, including patent registrations, statutory invention registrations, utility models, recordings and pending applications in the USPTO, and

all reissues, continuations, divisions, continuations-in-part, renewals or extensions thereof, and all proprietary inventions disclosed or claimed in the above and all improvements thereto, including the right to make, use and/or sell the inventions disclosed or claimed therein, including, without limitation, the United States Patent registrations and applications set forth in Schedule B hereto,

(c) all copyright rights in any work subject to the copyright laws of the United States, whether registered or unregistered, including copyrights in computer software and the content thereof, and internet web sites, registrations and applications for registration of any such copyright in the United States, including registrations, recordings, supplemental registrations and pending applications for registration in the USCO, and renewals and extensions thereof and thereto, including, without limitation, the United States Copyright registrations and applications set forth in Schedule C hereto, and

(d) to the extent not covered by the foregoing, all Proceeds of each of the foregoing.

Notwithstanding any other provision herein, this Second-Lien Intellectual Property Security Agreement shall not constitute a grant of a security interest in any United States intent-to-use trademark or service mark applications filed in the USPTO pursuant to 15 U.S.C. § 1051 Section 1(b), unless and until evidence of use of the mark in interstate commerce is accepted by the USPTO pursuant to 15 U.S.C. § 1051 Section 1(c) or Section 1(d).

**SECTION 2. Security for Obligations.** The grant of a security interest in the Collateral by each Grantor under this Second-Lien IP Security Agreement secures the payment of all amounts that constitute part of the Obligations and would be owed to the Collateral Agent or the Secured Parties but for the fact that they are unenforceable or not allowable due to the existence of a bankruptcy, reorganization or similar proceeding involving any Grantor.

**SECTION 3. Recordation.** Each Grantor authorizes and requests that the Register of Copyrights, the Commissioner for Patents, the Commissioner for Trademarks and any other applicable United States Governmental Authority record this Second-Lien IP Security Agreement.

**SECTION 4. Grants, Rights and Remedies.** This Second-Lien IP Security Agreement has been entered into in conjunction with the provisions of the Second-Lien Security Agreement. Each Grantor does hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and remedies of, the Collateral Agent with respect to the Collateral are more fully set forth in the Second-Lien Security Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Second-Lien IP Security Agreement and the terms of the Second-Lien Security Agreement, the terms of the Second-Lien Security Agreement shall govern.

**SECTION 5. Counterparts.** This Second-Lien IP Security Agreement may be executed by one or more of the parties to this Second-Lien IP Security Agreement on any number of separate counterparts (including by facsimile or other electronic transmission (i.e. a

'pdf or 'tif'), and all of said counterparts taken together shall be deemed to constitute one and the same instrument.

**SECTION 6. GOVERNING LAW. THIS SECOND-LIEN IP SECURITY AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK (INCLUDING, WITHOUT LIMITATION, SECTION 5-1401 OF THE GENERAL OBLIGATIONS LAW OF THE STATE OF NEW YORK), WITHOUT REGARD TO CONFLICTS OF LAWS PRINCIPLES, EXCEPT AS OTHERWISE REQUIRED BY MANDATORY PROVISIONS OF LAW AND EXCEPT TO THE EXTENT THAT REMEDIES PROVIDED BY THE LAWS OF ANY JURISDICTIONS OTHER THAN NEW YORK ARE GOVERNED BY THE LAWS OF SUCH JURISDICTIONS.**

**SECTION 7. Severability.** Any provision of this Second-Lien IP Security Agreement that is prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof and in the Second-Lien Security Agreement, and any such prohibition or unenforceability in any jurisdiction shall not invalidate or render unenforceable such provision in any other jurisdiction. The parties hereto shall endeavor in good-faith negotiations to replace the invalid, illegal or unenforceable provisions with valid provisions the economic effect of which comes as close as possible to that of the invalid, illegal or unenforceable provisions.

**SECTION 8. Notices.** All notices, requests and demands pursuant hereto shall be made in accordance with Section 14.02 of the Second-Lien Credit Agreement. All communications and notices hereunder to each Grantor shall be given to it in care of the Borrower at the Borrower's address as described in Section 14.02 of the Second-Lien Credit Agreement.

**SECTION 9. Expenses.** Each Grantor agrees to reimburse the Collateral Agent for its reasonable and documented out-of-pocket expenses in connection with this Second-Lien IP Security Agreement, including the reasonable and documented fees, other charges and disbursements of counsel for the Collateral Agent.

**SECTION 10. Intercreditor Agreement Governs.** Notwithstanding any other provision contained herein, this Second-Lien IP Security Agreement, the liens created hereby and the rights, remedies, duties and obligations provided for herein are subject in all respects to the provisions of the Intercreditor Agreement and, to the extent provided therein, the First-Lien Security Documents (as such term is defined in the Intercreditor Agreement). In the event of any conflict or inconsistency between the provisions of this Second-Lien IP Security Agreement and the Intercreditor Agreement that relates solely to the rights or obligations of, or relationship between, the First-Lien Secured Parties and the Second-Lien Secured Parties (as each such term is defined in the Intercreditor Agreement), the provisions of the Intercreditor Agreement shall control.

IN WITNESS WHEREOF, each Grantor and the Collateral Agent have duly executed this Second-Lien Intellectual Property Security Agreement as of the day and year first above written.

FENWAL, INC.

By: 

Name:

Title:

FENWAL HOLDINGS, INC.

By: 

Name:


Title:

MORGAN STANLEY & CO. INCORPORATED,  
as Collateral Agent

By:

Name:

Title:

  
Eugene F Martin  
Managing Director



SCHEDULE A TO THE  
SECOND-LIEN INTELLECTUAL PROPERTY  
SECURITY AGREEMENT

UNITED STATES TRADEMARKS

U.S. Trademark Registrations and Trademark Applications

<b>Trademark</b>	<b>Country</b>	<b>Status</b>	<b>App. Number</b>	<b>Reg. Number</b>
ADSOL	US	Registered	73/327182	1218845
ALYX	US	Registered	76/337082	2772325
AMICUS	US	Registered	74/575241	2142964
AUTOPHERESIS- C	US	Registered	73/479531	1371147
BLOOD-PACK	US	Registered	8212	641094
CONTINUOUS FLOW	US	Registered	73/422848	1278944
CS-3000	US	Registered	249948	1157151
FENWAL	US	Registered	298662	1197286
FENWAL	US	Registered	76/295208	2690111
FLEX-EXCEL*	US	Pending	78/711371	
GLYCEROLYTE	US	Registered	72/378586	932806
HEMATRON	US	Registered	205982	801961
HEMATYPE	US	Registered	75/075246	2080280
INTERSOL	US	Registered	76/077081	2753566
KINDERQ-5	US	Pending	77/048549	
MOBI	US	Registered	76/476114	3,060,634
PEDIQ 5	US	Pending	77/048701	
PEDI-STORE 5	US	Pending	77/048709	
PLASMA-GARD	US	Registered	249325	1160839
PLASMA-GARD	US	Registered	118859	1082372
PLASMACELL-C	US	Registered	74/221436	1707969
PLASMALINK	US	Registered	75/334712	2304595
POWERFUL MEDICINE	US	Registered	76/123451	2,577,614
SPIKESMART	US	Registered	75/377534	2469964

\* The trademark application marked with an asterisk is a United States intent-to-use trademark applications filed in the USPTO pursuant to 15 U.S.C. § 1051 Section 1(b), and the security interest should not be recorded against such application unless and until evidence of use of such mark in interstate commerce is accepted by the USPTO pursuant to 15 U.S.C. § 1051 Section 1(c) or Section 1(d).

SCHEDULE B TO THE  
SECOND-LIEN INTELLECTUAL PROPERTY  
SECURITY AGREEMENT

UNITED STATES PATENTS

See attached "Owned U.S. Patents" Exhibit.

## 1. Owned Buyer Patents

InvTitle	Country	AppNumber	PatNumber
INLINE FILTER	US	8/090552	5724988
INLINE FILTER	US	9/597653	6523698
INLINE FILTER	US	8/955409	6189704
BREAKABLE CANNULA ASSEMBLIES AND METHOD FOR MANIPULATING THEM	US	9/036337	6132413
BLOOD COLLECTION METHOD EMPLOYING AN AIR VENTING BLOOD SAMPLE TUBE	US	9/088231	6358420
SEALING APPARATUS AND METHOD	US	60/287027	
SEALING APPARATUS AND METHOD	US	10/475767	
NEEDLE PROTECTOR	US	60/402286	
NEEDLE PROTECTOR	US	10/618353	
HOLDER FOR DOUBLE ENDED BLOOD COLLECTION RETRACTABLE NEEDLE	US	269168	5030209
NEEDLE GUARD FOR BLOOD COLLECTION	US	765956	5181524
BLOOD COLLECTION TUBE HOLDER	US	828309	5219333
DISPOSAL FOR NEEDLE AND SYRINGES	US	536708	5086922
DISPOSAL FOR DISENGAGING AND RECEIVING NEEDLES	US	576378	5092462
NEEDLE DISPOSAL SYSTEM COMPRISED OF BLOOD COLLECTION HOLDER AND COMPANION BIOHAZARD RECEPTACLE	US	708900	5273161
NEEDLE DISPOSAL SYSTEM COMPRISED OF BLOOD COLLECTION HOLDER AND COMPANION BIOHAZARD RECEPTACLE	US	08/156083	5409112
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	8/612093	5714125
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	8/951440	5910289
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	9/287000	6074612

## 1. Owned Buyer Patents

InvTitle	Country	AppNumber	PatNumber
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	10/116770	7153386
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	9/521739	6727101
DEVICE FOR COLLECTING A BLOOD SAMPLE FROM A PLASTIC SEGMENT TUBE	US	9/549982	6503453
APPARATUS FOR INDICATING PROPER ORIENTATION FOR ORAL AND NASAL INHALERS	US	60/030212	
APPARATUS FOR INDICATING PROPER ORIENTATION FOR ORAL AND NASAL INHALERS	US	8/963880	5957125
IMPROVED NEEDLE DESIGN FOR MEDICAL APPLICATIONS	US	60/207709	
IMPROVED NEEDLE DESIGN FOR MEDICAL APPLICATIONS	US	9/866139	6709428
IMPROVED NEEDLE DESIGN FOR MEDICAL APPLICATIONS	US	10/318650	7024749
PLASTIC COMPOSITION WITH ANTI-HEMOLYTIC EFFECT	US	7/837581	5167657
PLASTIC COMPOSITION WITH ANTI-HEMOLYTIC EFFECT	US	7/494045	5100401
PLASTIC COMPOSITION WITH ANTI-HEMOLYTIC EFFECT	US	7/270006	5026347
CRYOGENIC RESISTANT COEXTRUDED TUBING	US	7/560698	5460625
METHODS FOR PROCESSING RED CELL PRODUCTS FOR LONG TERM STORAGE FREE OF MICROORGANISMS	US	8/299793	5512187
BLOOD LABELS AND THE LIKE	US	7/847165	5314421
BLOOD LABELS AND THE LIKE	US	8/173337	5507525
RELIABLE BREAKABLE CLOSURE MECHANISM	US	7/849267	5330464
BLOOD SAMPLING SYSTEM WITH LUER ADAPTER	US	7/979567	5372143
BLOOD COLLECTION SYSTEM	US	8/650929	5824216
BLOOD COLLECTION SYSTEM	US	8/684516	5770051
BLOOD CELL SEPARATOR SIGNAL PROCESSING SYSTEM AND METHOD	US	8/482363	5565977

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
APPARATUS FOR OBTAINING LIQUID SAMPLES	US	9/231682	6126618
PRE-DONATION SAMPLING SYSTEM INCLUDING A SAMPLING POUCH	US	9/364628	6387086
SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM	US	10/304299	7044941
SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM	US	10/957016	
SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM	US	11/251283	
SAMPLING TUBE HOLDER FOR BLOOD SAMPLING SYSTEM	US	11/250717	
METHOD AND APPARATUS FOR BLOOD SAMPLING	US	10/956296	
FLOW CONTROL DEVICE	US	9/964959	6742760
IRREVERSIBLY CLOSABLE FLOW CONTROL CLAMP	US	60/353930	
IRREVERSIBLY CLOSABLE FLOW CONTROL CLAMP	US	10/501571	
HOLDER ASSEMBLY FOR BLOOD COLLECTION TUBE	US	60/364314	
HOLDER ASSEMBLY FOR BLOOD COLLECTION TUBE	US	10/279251	
BLOOD DONOR NEEDLE ASSEMBLY AND COVER	US	10/974651	
FLUID FLOW DIVERSION VALVE AND BLOOD COLLECTION SYSTEM EMPLOYING SAME	US	60/740312	
FLUID FLOW DIVERSION VALVE AND BLOOD COLLECTION SYSTEM EMPLOYING SAME	US	11/564085	
BLOOD COMPONENT CONTAINER	US	11/376790	
FLOW CONTROLLERS	US	11/555797	
FLOW CONTROLLERS	US	11/555868	
SYSTEMS AND METHODS FOR REMOVING UNDESIRE D MATTER FROM BLOOD CELLS	US	7/453952	4997577; RE35804
MEDICAL CONTAINER PORT	US	8/313560	5507904
APPARATUS AND METHODS FOR FILTERING LEUKOCYTES FROM BLOOD CELLS	US	8/700239	5772880

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
APPARATUS AND METHODS FOR FILTERING LEUKOCYTES FROM BLOOD CELLS	US	8/178383	5591337
F4-WHOLE BLOOD LEUKODEPLETION AND PLATETLET FILTER	US	8/323559	5647985
METHOD OF SEPARATING LEUKOCYTES FROM BLOOD CELLS USING A LEUKODEPLETION FILTER	US	8/810751	5795483
FILTRATION MEDIA FOR FILTERING LEUKOCYTES FROM FRESHLY DRAWN BLOOD	US	8/370772	5728306
FILTRATION MEDIA FOR FILTERING LEUKOCYTES FROM FRESHLY DRAWN BLOOD	US	8/943455	5885457
CONFINED AIR TUBE AND METHODS FOR HANDLING AIR IN CLOSED BLOOD PROCESSING SYSTEM	US	9/082946	6267745
CONFINED AIR TUBE AND METHODS FOR HANDLING AIR IN CLOSED BLOOD PROCESSING SYSTEM	US	10/619870	6997893
SYSTEMS AND METHODS FOR COLLECTING PLASMA THAT IS FREE OR VIRTUALLY FREE OF CELLULAR BLOOD SPECIES	US	9/540935	6669905
SYSTEMS AND METHODS FOR COLLECTING LEUKOCYTE-REDUCED BLOOD COMPONENTS, INCLUDING PLASMA THAT IS FREE OR VIRTUALLY FREE OF CELLULAR BLOOD SPECIES	US	60/252870	
SYSTEMS AND METHODS FOR COLLECTING LEUKOCYTE-REDUCED BLOOD COMPONENTS, INCLUDING PLASMA THAT IS FREE OR VIRTUALLY FREE OF CELLULAR BLOOD SPECIES	US	11/449543	
FILTER ASSEMBLY HAVING A FLEXIBLE HOUSING AND METHOD OF MAKING SAME	US	10/055862	6601710

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
FILTER ASSEMBLY HAVING A FLEXIBLE HOUSING AND METHOD OF MAKING SAME	US	10/084605	6688476
FILTER ASSEMBLY HAVING A FLEXIBLE HOUSING AND METHOD OF MAKING SAME	US	10/764630	
BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER	US	9/498085	6367634
BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER	US	10/761850	
BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER	US	9/593782	6422397
BLOOD COLLECTION SYSTEMS INCLUDING AN INTEGRAL, FLEXIBLE FILTER	US	10/159442	6745902
BLOOD COLLECTION SYSTEMS INCLUDING A FLEXIBLE FILTER WITH A CUSHIONED PERIPHERY			
OBTAIN ASAHI ATTORNEY COMMENTS	US	10/275805	
BLOOD FILTER ASSEMBLY HAVING MULTIPLE FILTRATION REGIONS	US	10/742521	
BIOLOGICAL FLUID FILTRATION SYSTEMS AND METHODS	US	11/618286	
MOBILE, SELF-CONTAINED BLOOD COLLECTION SYSTEM AND METHOD	US	7/296850	4911703
MOBILE, SELF-CONTAINED BLOOD COLLECTION SYSTEM AND METHOD	US	7/496739	5232437
OPTIMIZED FILTER AND METHOD	US	7/473142	4964976
METHOD AND APPARATUS FOR COLLECTION OF PLATELETS	US	8/459529	5614106
DISPOSABLE TUBING SET AND ORGANIZER FRAME FOR HOLDING FLEXIBLE TUBING	US	8/779094	5870805

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
AUTOMATED BLOOD TRACKING SYSTEM AND INTERFACE	US	60/287122	
SYSTEM AND METHOD FOR COMPILING AND VIEWING INFORMATION OF DATA ACTIONS WITHIN A BLOOD COLLECTION	US	9/864888	
A SYSTEM AND METHOD FOR TRACKING AND REORDERING SOFT GOODS	US	9/864891	
BLOOD COMPONENT CENTRIFUGE HAVING COLLAPSIBLE INNER LINER	US	824182	4934995
DISPOSABLE CONTAINER FOR A CENTRIFUGE	US	8/472671	5759147
DISPOSABLE CONTAINER FOR A CENTRIFUGE	US	7/744947	5217426
DISPOSABLE CONTAINER FOR A CENTRIFUGE	US	8/277706	5571068
CENTRIFUGATION SYSTEMS HAVING AN INTERFACE DETECTION SURFACE	US	8/199082	5494578
CENTRIFUGATION SYSTEMS HAVING AN INTERFACE DETECTION SURFACE	US	7/514995	5104526
CENTRIFUGATION SYSTEMS HAVING AN INTERFACE DETECTION SURFACE	US	7/677602	5076911
CENTRIFUGAL FLUID PROCESSING SYSTEM AND METHOD	US	7/598753	5078671
SMALL VOLUME COLLECTION CHAMBER	US	7/531175	5224921
CENTRIFUGE WITH SEPARABLE BOWL AND SPOOL ELEMENTS PROVIDING ACCESS TO THE SEPARATION CHAMBER	US	8/334197	5525218
CENTRIFUGE WITH SEPARABLE BOWL AND SPOOL ELEMENTS PROVIDING ACCESS TO THE SEPARATION CHAMBER	US	8/147015	5360542
ENHANCED YIELD PLATELET COLLECTION SYSTEMS AND METHODS	US	8/336283	5529691



**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
ENHANCED YIELD PLATELET COLLECTION SYSTEMS AND METHODS	US	7/965088	5370802
ENHANCED YIELD COLLECTION SYSTEMS AND METHODS FOR OBTAINING CONCENTRATED PLATELETS FROM PLATELET-RICH PLASMA	US	8/978499	5993370
TIME BASED INTERFACE DETECTION SYSTEMS FOR BLOOD PROCESSING	US	8/109008	5316667
COMPACT ENHANCED YIELD BLOOD PROCESSING SYSTEMS	US	10/337486	6899666
COMPACT ENHANCED YIELD BLOOD PROCESSING SYSTEMS	US	8/856096	6228017
COMPACT ENHANCED YIELD BLOOD PROCESSING SYSTEMS	US	8/146403	5656163
SYSTEMS AND METHODS FOR REDUCING THE NUMBER OF LEUKOCYTES IN CELLULAR PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	8/454010	5549834
SYSTEMS AND METHODS FOR ON-LINE COLLECTING AND RESUSPENDING CELLULAR-RICH BLOOD PRODUCTS LIKE PLATELET CONCENTRATES	US	8/097293	5427695
SYSTEMS AND METHODS FOR ON-LINE COLLECTION OF CELLULAR BLOOD COMPONENTS THAT ASSURE DONOR COMFORT	US	8/977305	6071421
SYSTEMS AND METHODS FOR ON-LINE COLLECTION OF CELLULAR BLOOD COMPONENTS THAT ASSURE DONOR COMFORT	US	8/975694	6007725
PERISTALTIC PUMP TUBE CASSETTE FOR BLOOD PROCESSING SYSTEMS AND THE LIKE	US	8/173517	5462416

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
BLOOD PROCESSING SYSTEMS USING A PERISTALTIC PUMP MODULE	US	8/173520	5482440
PERISTALTIC PUMP MODULE HAVING JAWS FOR GRIPPING A PERISTALTIC PUMP TUBE CASSETTE	US	8/172654	5480294
PERISTALTIC PUMP TUBE CASSETTE WITH ANGLE PUMP TUBE PORTS	US	8/173518	5427509
SELF LOADING PERISTALTIC PUMP TUBE CASSETTE	US	8/172130	5445506
CENTRIFUGE WITH SLOPED ROTATIONAL AXIS AND FUNCTIONAL COMPONENTS MOUNTED ON COMPLEMENTING SLOPED PANEL	US	8/535762	5547453
STRESS BEARING UMBILICUS FOR A COMPACT CENTRIFUGE	US	8/590353	5996634
STRESS BEARING UMBILICUS FOR A COMPACT CENTRIFUGE	US	8/172131	5514069
PERISTALTIC PUMP TUBE HOLDER WITH PUMP TUBE SHIELD AND COVER	US	8/848020	5868696
PERISTALTIC PUMP AND VALVE ASSEMBLY FOR FLUID PROCESSING	US	8/173516	5484239
BLOOD PROCESSING SYSTEM HAVING SPILL SENSOR WITH FAIL-SAFE	US	8/270644	5529567
PERISTALTIC PULSE PUMPING SYSTEMS AND METHODS	US	8/269933	5538405
INTERACTIVE CONTROL SYSTEMS FOR MEDICAL PROCESSING DEVICES	US	8/337639	5581687
BLOOD COLLECTION SYSTEMS AND METHODS WHICH DERIVE INSTANTANEOUS BLOOD COMPONENT YIELD INFORMATION DURING BLOOD PROCESSING	US	8/807820	5833866

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
BLOOD PROCESSING SYSTEMS AND METHODS WHICH MONITOR CITRATE RETURN TO THE DONOR	US	8/472439	5676841
BLOOD PROCESSING SYSTEMS AND METHODS USING APPARENT HEMATOCRIT AS A PROCESS CONTROL PARAMETER	US	8/960674	6059979
BLOOD PROCESSING SYSTEMS AND METHODS USING APPARENT HEMATOCRIT AS A PROCESS CONTROL PARAMETER	US	9/793801	6451203
SYSTEMS AND METHODS FOR DERIVING RECOMMENDED STORAGE PARAMETERS FOR COLLECTED BLOOD COMPONENTS	US	8/483733	5639382
SYSTEM AND METHOD FOR ESTIMATING PLATELET COUNT USING A SPLEEN MOBILIZATION FUNCTION	US	9/027638	6197202
SYSTEM AND METHOD FOR ESTIMATING PLATELET COUNT USING A SPLEEN MOBILIZATION FUNCTION	US	8/480601	5759413
SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	10/430785	6872307
SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	11/064267	
SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	9/548190	6361692

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**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	9/223212	6051147
SYSTEMS AND METHODS FOR ON-LINE FINISHING OF CELLULAR BLOOD PRODUCTS LIKE PLATELETS HARVESTED FOR THERAPEUTIC PURPOSES	US	8/606189	5865785
UMBILICUS GIMBAL WITH BEARING RETAINER	US	8/835928	5989177
INTERFACE DETECTOR AND CONTROL SYSTEMS AND METHODS	US	8/922880	5980757
BLOOD PROCESSING SYSTEMS AND METHODS WHICH OPTICALLY MONITOR PLASMA OPACITY	US	8/896665	5958250
BLOOD PROCESSING SYSTEMS AND METHODS WHICH OPTICALLY MONITOR PLASMA OPACITY	US	9/382893	6183651
BLOOD PROCESSING SYSTEMS AND METHODS WHICH OPTICALLY MONITOR INCREMENTAL PLATELET VOLUMES IN A PLASMA CONSTITUENT	US	9/419727	6312607
PERISTALTIC PUMP CONTROLLER WITH SCALE FACTOR THAT VARIES AS A STEP FUNCTION OF PUMP INLET PRESSURE	US	8/960676	5947692
SYSTEMS AND METHODS FOR STORING, RETRIEVING AND MANIPULATING DATA IN MEDICAL PROCESSING DEVICES	US	9/037356	6256643
SYSTEMS AND METHODS FOR STORING, RETRIEVING AND MANIPULATING DATA IN MEDICAL PROCESSING DEVICES	US	9/855901	6542910

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**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
APHERESIS SYSTEM WITH ANTICOAGULANT FLOW CONTROL	US	9/042260	6565806
APHERESIS SYSTEM WITH ANTICOAGULANT FLOW CONTROL	US	10/372882	6855120
A CARRIER FOR HOLDING A FLEXIBLE FLUID PROCESSING CONTAINER	US	9/050614	7001321
BLOOD COLLECTION SYSTEMS AND METHODS THAT DERIVE ESTIMATED EFFECTS UPON THE DONOR'S BLOOD BOLUME AND HEMATOCRIT	US	10/827951	
BLOOD COLLECTION SYSTEMS AND METHODS THAT DERIVE ESTIMATED EFFECTS UPON THE DONOR'S BLOOD BOLUME AND HEMATOCRIT	US	9/789183	6730054
SYSTEMS AND METHODS FOR SEPARATING HIGH HEMATOCRIT RED BLOOD CELL CONCENTRATIONS	US	9/072961	6080322
SYSTEMS AND METHODS WHICH OBTAIN A UNIFORM TARGETED VOLUME OF CONCENTRATED RED BLOOD CELLS IN DIVERSE DONOR POPULATIONS	US	8/979160	6251284
SYSTEM AND METHODS FOR SEPARATING, COLLECTING AND STORING RED BLOOD CELLS	US	9/287671	6527957
PRE-DONATION SAMPLING SYSTEM INCLUDING A SAMPLING POUCH	US	10/279252	
SELF-CONTAINED, TRANSPORTABLE BLOOD PROCESSING DEVICE	US	9/390489	6325775
PROGRAMMABLE, FLUID PRESSURE ACTUATED BLOOD PROCESSING SYSTEMS AND METHODS	US	9/390268	6949079

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
PROGRAMMABLE, FLUID PRESSURE ACTUATED BLOOD PROCESSING SYSTEMS AND METHODS	US	11/052528	
SYSTEMS AND METHODS FOR CONTROL OF PUMPS EMPLOYING ELECTRICAL FIELD SENSING	US	10/153165	6984218
FLUID FLOW CASSETTE WITH PRESSURE ACTUATED PUMP AND VALVE STATIONS	US	9/389797	6481980
FLUID FLOW CASSETTE WITH PRESSURE ACTUATED PUMP AND VALVE STATIONS	US	10/828440	
FLUID FLOW CASSETTE WITH PRESSURE ACTUATED PUMP AND VALVE STATIONS	US	10/287560	6716004
SYSTEM AND METHODS FOR CONTROL OF PUMPS EMPLOYING GRAVIMETRIC SENSING	US	9/390269	6296450
SYSTEMS AND METHODS FOR CONTROL OF PUMPS EMPLOYING ELECTRICAL FIELD SENSING	US	9/390491	6261065
BLOOD PROCESSING SYSTEMS AND METHODS WITH SENSORS TO DETECT CONTAMINATION DUE TO PRESENCE OF CELLULAR COMPONENTS OR DILUTION DUE TO PRESENCE OF PLASMA	US	9/390492	6348156
SENSING SYSTEMS AND METHODS FOR DIFFERENTIATING BETWEEN DIFFERENT CELLULAR BLOOD SPECIES DURING EXTRACORPOREAL BLOOD SEPARATION OR PROCESSING	US	9/931146	6537445
SYSTEMS AND METHODS FOR SENSING RED BLOOD CELL HEMATOCRIT	US	9/901986	6419822

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
BLOOD SEPARATION SYSTEMS AND METHODS USING A MULTIPLE FUNCTION PUMP STATION TO PERFORM DIFFERENT ON-LINE PROCESSING TASKS	US	9/389504	7041076
BLOOD SEPARATION SYSTEMS AND METHODS USING A MULTIPLE FUNCTION PUMP STATION TO PERFORM DIFFERENT ON-LINE PROCESSING TASKS	US	11/375965	
BLOOD PROCESSING SYSTEMS AND METHODS THAT ALTERNATE FLOW OF BLOOD COMPONENT AND ADDITIVE SOLUTION THROUGH AN IN-LINE LEUKOFILTER	US	9/976832	6875191
BLOOD PROCESSING SYSTEMS AND METHODS THAT ALTERNATE FLOW OF BLOOD COMPONENT AND ADDITIVE SOLUTION THROUGH AN IN-LINE LEUKOFILTER	US	11/032271	
BLOOD SEPARATION CHAMBER WITH PREFORMED BLOOD FLOW PASSAGES AND CENTRALIZED CONNECTION TO EXTERNAL TUBING	US	9/389938	6322488
BLOOD SEPARATION CHAMBER WITH PREFORMED BLOOD FLOW PASSAGES AND CENTRALIZED CONNECTION TO EXTERNAL TUBING	US	10/438953	6800054
BLOOD SEPARATION CHAMBER WITH CONSTRICTED INTERIOR CHANNEL AND RECESSED PASSAGE	US	10/339473	7166231
BLOOD SEPARATION CHAMBER WITH CONSTRICTED INTERIOR CHANNEL AND RECESSED PASSAGE	US	9/389935	6524231

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**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
BLOOD SEPARATION CHAMBER WITH CONSTRICTED INTERIOR CHANNEL AND RECESSED PASSAGE	US	11/256550	
SYSTEMS AND METHODS FOR SEPARATING BLOOD IN A ROTATING FIELD	US	9/390266	6315707
BLOOD PROCESSING SYSTEMS AND METHODS EMPLOYING FLUID PRESSURE ACTUATED PUMPS AND VALVES	US	9/389934	6759007
FLUID PRESSURE ACTUATED BLOOD PUMPING SYSTEMS AND METHODS WITH CONTINUOUS INFLOW AND PULSATILE OUTFLOW CONDITIONS	US	10/828359	
FLUID PRESSURE ACTUATED BLOOD PUMPING SYSTEMS AND METHODS WITH CONTINUOUS INFLOW AND PULSATILE OUTFLOW CONDITIONS	US	9/390265	6723062
MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS	US	60/216640	
MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS	US	10/031112	6994781
MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS	US	11/198804	
MEDICAL SYSTEM, METHOD AND APPARATUS EMPLOYING MEMS	US	11/198805	
ADAPTABLE BLOOD PROCESSING PLATFORMS	US	10/144662	7032910
RED BLOOD CELL PROCESSING SYSTEMS AND METHODS WHICH CONTROL RED BLOOD CELL HEMATOCRIT	US	10/280109	7011761



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**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
RED BLOOD CELL PROCESSING SYSTEMS AND METHODS WHICH CONTROL RED BLOOD CELL HEMATOCRIT	US	11/255356	
RED BLOOD CELL PROCESSING SYSTEMS AND METHODS WITH DELIVERATE UNDER SPILL OF RED BLOOD CELLS	US	10/279772	6878105
BLOOD COMPONENT PROCESSING SYSTEMS AND METHODS USING FLUID-ACTUATED PUMPING ELEMENTS THAT ARE INTEGRITY TESTED PRIOR TO THEIR USE	US	10/280108	6846161
BLOOD COMPONENT PROCESSING SYSTEMS AND METHODS USING FLUID-ACTUATED PUMPING ELEMENTS THAT ARE INTEGRITY TESTED PRIOR TO USE	US	10/983014	7004727
BLOOD PROCESSING SYSTEMS AND METHODS FOR COLLECTING PLASMA FREE OR ESSENTIALLY FREE OF CELLULAR BLOOD COMPONENTS	US	10/279765	6849039
BLOOD PROCESSING SYSTEMS AND METHODS WITH UMBILICUS-DRIVEN BLOOD PROCESSING CHAMBERS	US	10/279779	6860846
SEPARATION APPARATUS AND METHOD	US	60/533820	
SEPARATION APPARATUS AND METHOD	US	10/827603	
METHOD AND APPARATUS FOR COLLECTING AND PROCESSING BLOOD	US	60/532310	
METHOD AND APPARATUS FOR COLLECTING AND PROCESSING BLOOD	US	10/826420	

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
METHODS FOR DETERMINING FLOW RATES OF BIOLOGICAL FLUIDS	US	10/826086	7087177
METHODS FOR DETERMINING FLOW RATES OF BIOLOGICAL FLUIDS	US	11/427402	
IRRADIATION OF BLOOD PRODUCTS	US	7/346202	4952812
RED BLOOD CELL STORAGE SOLUTION	US	8/742279	5906915
SYSTEMS AND METHODS FOR ERADICATING CONTAMINENTS USING PHOTOACTIVE MATERIALS IN FLUIDS LIKE BLOOD USING DISCRETE SOURCES OF RADIATION	US	8/174211	5868695
SYSTEMS AND METHODS FOR ERADICATING CONTAMINENTS USING PHOTOACTIVE MATERIALS IN FLUID LIKE BLOOD	US	7/991758	5300019
SYSTEMS AND METHODS FOR REMOVING FREE AND ENTRAINED CONTAMINANTS IN PLASMA	US	9/073230	6695805
SYSTEMS AND METHODS FOR REMOVING FREE AND ENTRAINED CONTAMINANTS IN PLASMA	US	8/574741	5935092
SYSTEMS FOR ERADICATING CONTAMINENTS USING PHOTOACTIVE MATERIALS IN FLUIDS LIKE BLOOD	US	7/994094	5290221
CONTAINER FOR IRRADIATION OF BLOOD PRODUCTS	US	10/752352	
METHOD FOR INACTIVATING PATHOGENS IN A BODY FLUID	US	8/010469	5360734
METHOD FOR INACTIVATING PATHOGENS IN A BODY FLUID	US	8/274507	5597722
STEAM STERILIZABLE SYSTEM FOR INACTIVATING VIRAL CONTAMINANTS IN BODY FLUIDS	US	7/952427	6207107

**PLA EXHIBIT A**  
**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
APPARATUS AND METHOD FOR INACTIVATING VIRAL CONTAMINANTS IN BODY FLUIDS	US	8/434700	5527704
APPARATUS AND METHOD FOR INACTIVATING VIRAL CONTAMINANTS IN BODY FLUIDS	US	9/675511	6800432
METHOD AND APPARATUS FOR TREATING A BODY FLUID	US	8/168438	6319662
APPARATUS AND METHOD FOR INACTIVATING VIRUSES IN PLASMA	US	8/299398	5762867
SYNTHETIC MEDIA FOR BLOOD COMPONENTS	US	8/692444	5908742
SYSTEMS AND METHODS FOR REMOVING VIRAL AGENTS FROM BLOOD	US	8/742572	6190855
SYSTEMS AND METHODS FOR REMOVING VIRAL AGENTS FROM BLOOD	US	9/688079	6855489
SYSTEMS AND METHODS FOR REMOVING VIRAL AGENTS FROM BLOOD	US	11/056347	
METHODS AND APPARATUS FOR INACTIVATING CONTAMINANTS IN BIOLOGICAL FLUIDS	US	8/752606	5922278
METHODS AND APPARATUS FOR INACTIVATING CONTAMINANTS IN BIOLOGICAL FLUID	US	9/081168	6190609
PLATELET SUSPENSIONS AND METHODS FOR RESUSPENDING PLATELETS	US	9/490191	6326197
PLATELET SUSPENSIONS AND METHODS FOR RESUSPENDING PLATELETS	US	8/871115	6063624
PLATELET SUSPENSIONS AND METHODS FOR RESUSPENDING PLATELETS	US	10/029785	6613566
SYNTHETIC MEDIA FOR BLOOD COMPONENTS	US	9/732174	6566046
SYNTHETIC MEDIA FOR BLOOD COMPONENTS	US	9/240067	6251580

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InvTitle	Country	AppNumber	PatNumber
SYNTHETIC MEDIA FOR BLOOD COMPONENTS	US	10/413110	6866992
COMPOSITE MEMBRANES AND METHODS FOR MAKING SUCH MEMBRANES	US	9/997822	6899834
COMPOSITE MEMBRANES AND METHODS FOR MAKING SUCH MEMBRANES	US	9/111915	6908553
APPARATUS, MEMBRANES AND METHODS FOR REMOVING ORGANIC COMPOUNDS FROM A BIOLOGICAL FLUID	US	9/111655	6099734
PLASTIC CONTAINERS HAVING INNER POUCHES AND METHODS FOR MAKING SUCH CONTAINERS	US	10/059666	
PLASTIC CONTAINERS HAVING INNER POUCHES AND METHODS FOR MAKING SUCH CONTAINERS	US	9/325436	6364864
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING BIOLOGICAL FLUID WITH LIGHT	US	9/325325	6565802
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING BIOLOGICAL FLUID WITH LIGHT	US	10/207744	6986867
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING BIOLOGICAL FLUID WITH LIGHT	US	11/191134	
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID WITH LIGHT	US	10/269409	7068361
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID WITH LIGHT	US	11/443599	
APPARATUS, SYSTEMS AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID WITH LIGHT	US	11/443927	

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**1. Owned Buyer Patents**

InvTitle	Country	AppNumber	PatNumber
PROCESSING SET AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID	US	10/267566	7105093
PROCESSING SET AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID	US	9/325599	7205877
PROCESSING SET AND METHODS FOR PROCESSING AND TREATING A BIOLOGICAL FLUID	US	11/353397	
FLUID PROCESSING SETS AND ORGANIZERS FOR THE SAME	US	10/269444	
MANUAL PROCESSING SYSTEMS AND METHODS FOR PROVIDING BLOOD COMPONENTS CONDITIONED FOR PATHOGEN INACTIVATION	US	10/008361	
METHODS AND SYSTEMS FOR PREPARING BLOOD PRODUCTS	US	10/004696	6936413
METHODS AND SYSTEMS FOR PREPARING BLOOD PRODUCTS	US	11/173214	
COMPOUND REMOVAL DEVICE	US	60/364289	
METHOD AND APPARATUS FOR A PATHOGEN INACTIVATION MANAGEMENT SYSTEM	US	10/290035	
FLOW-THROUGH REMOVAL DEVICE AND SYSTEM USING SUCH DEVICE	US	10/661994	
FLOW-THROUGH REMOVAL DEVICE AND SYSTEM USING SUCH DEVICE	US	11/267391	

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