

TRADEMARK ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	RELEASE BY SECURED PARTY		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Bank of America, N.A.		01/29/2010	National Association: UNKNOWN
RECEIVING PARTY DATA			
Name:	Applied Biosystems, LLC		
Street Address:	850 LINCOLN CENTRE DRIVE		
City:	FOSTER CITY		
State/Country:	CALIFORNIA		
Postal Code:	94404		
Entity Type:	LIMITED LIABILITY COMPANY: DELAWARE		
PROPERTY NUMBERS Total: 23			
Property Type	Number	Word Mark	
Registration Number:	2241354	DELAYED EXTRACTION	
Registration Number:	2428832	TURBOIONSPRAY	
Registration Number:	2462348	ANALYST	
Registration Number:	2540925	DATA EXPLORER	
Registration Number:	2559238	QSTAR	
Registration Number:	2574782	MICROIONSPRAY	
Registration Number:	2593108	MALDI TOF/TOF	
Registration Number:	2659778	LINAC	
Registration Number:	2730949	Q TRAP	
Registration Number:	2796411	NANOSPRAY	
Registration Number:	2917905	PHOTOSPRAY	
Registration Number:	3027341	OPTI-TOF	
Registration Number:	3206615	ITRAQ	
Registration Number:	3228531	QJET	

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TRADEMARK
REEL: 004177 FRAME: 0488

Registration Number:	3363678	LIQUID
Registration Number:	3410718	LIGHTSIGHT
Registration Number:	3600394	MTRAQ
Serial Number:	77146484	FLASHQUANT
Serial Number:	77146488	FLASHVIEW
Serial Number:	77146490	FLASHID
Serial Number:	77146495	FLASHLASER
Serial Number:	77368010	IMETHODS
Serial Number:	77559308	IONCOOLER

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	10335-1
NAME OF SUBMITTER:	Susan Zablocki
Signature:	//susan zablocki//
Date:	03/31/2010

Total Attachments: 34
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**RELEASE OF SECURITY INTEREST IN CERTAIN PATENT AND TRADEMARK
COLLATERAL**

WHEREAS, Applied Biosystems, LLC, a Delaware limited liability company, (the "Grantor") has entered into a Security Agreement dated as of November 21, 2008, (the "Security Agreement") with Bank of America, N.A., as Collateral Agent, (the "Grantee") and certain other parties;

WHEREAS, under the Security Agreement the Grantor granted to the Grantee, a security interest in the patent and patent applications and trademark, trademark registrations and trademark applications of the Grantor, which Grant of Security Interest in United States Patents and Trademarks was recorded with the U.S. Patent and Trademark Office on December 5, 2008, under Reel/Frame Nos. 021976/0001, 021976/0160 and 3898/0616, and on December 8, 2008, under Reel/Frame No. 021940/0920 (the "Security Interest");

WHEREAS, while the Security Interest continues in full force and effect, the Grantor would like to secure a limited release of the Security Interest solely with respect to (i) the patents and patent applications set forth on **Schedule A** (the "Released Patents"), (ii) the trademark, trademark registrations and trademark applications set forth on **Schedule B**, and all of the goodwill of the business connected with the use of, and symbolized by, each trademark, trademark registration and trademark application (the "Released Trademarks"), and (iii) all products and proceeds of the foregoing, including any claim by the Grantor against third parties for past, present or future infringement of any of the foregoing Patents, or past, present or future infringement or dilution of any of the foregoing Trademarks or Trademark registrations or for injury to the goodwill associated with any of the foregoing Trademarks or Trademark registrations (the "Products and Proceeds"), and the Grantee has agreed to release and assign any and all of its interest solely with respect to the Released Patents, Released Trademarks and Products and Proceeds, under the terms and conditions set forth herein;

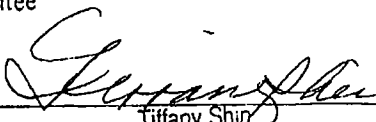
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the Grantee agrees as follows:

1. The Grantee hereby terminates, releases, removes and otherwise eliminates and assigns its entire right, title, and interest solely in the Released Patents, Released Trademarks and Products and Proceeds, connected therewith or relating thereto, and declares as null and void all liens, security interests, and other claims, including any claim of ownership, of the Grantee solely with respect to the Released Patents, Released Trademarks and Products and Proceeds. For the avoidance of doubt, the Security Interest shall continue in all other respects, and all other rights and obligations under the Security Interest shall remain in full force and effect.
2. The Grantee hereby authorizes and requests that the Commissioner of Patents and Trademarks of the United States record the foregoing release with the United States Patent and Trademark Office.

3. This RELEASE OF SECURITY INTEREST IN CERTAIN PATENT AND TRADEMARK COLLATERAL has been executed and delivered by the Grantee for the purpose of terminating, releasing, removing, or otherwise eliminating the security interest of the Grantee solely with respect to the Released Patents, Released Trademarks and Products and Proceeds.
4. This Release shall be binding upon the Grantee's legal representatives, successors, and assigns.

IN WITNESS WHEREOF, Grantor and Grantee have caused this RELEASE OF SECURITY INTEREST IN CERTAIN PATENT AND TRADEMARK COLLATERAL to be duly executed by their respective officers thereunto duly authorized as of the 29 day of January, 2010.

Bank of America, N.A.,
as Grantee

By: 
Name: Tiffany Shin
Title: Assistant Vice President

Applied Biosystems, LLC,
as Grantor,
By: Life Technologies Corporation, its sole
member,

By: _____
Name: David H. Smith
Title: Authorized Officer

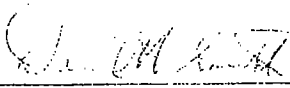
[Signature Page – Release of Security Interest in Certain U.S. Patent and Trademark Collateral]

IN WITNESS WHEREOF, Grantor and Grantee have caused this RELEASE OF SECURITY INTEREST IN CERTAIN PATENT AND TRADEMARK COLLATERAL to be duly executed by their respective officers thereunto duly authorized as of the 29 day of January, 2010.

Bank of America, N.A.,
as Grantee

By: _____
Name:
Title:

Applied Biosystems, LLC,
as Grantor,
By: Life Technologies Corporation, its sole
member,

By:  _____
Name: David H. Smith
Title: Authorized Officer

[Signature Page Release of Security Interest in Certain U.S. Patent and Trademark Collateral]

Schedule A

Patents

iTRAQ Related Patent Family

Case Number	Sub Case	Application Title	Application Status	Appl Number	File Date	Patent Number	Issue Date	Owner of Record
5310	P	Mass Tags for Quantitative Analysis	CONVERTED	60/587138	12-Jul-04			Expired Provisional
5310		Mass Tags for Quantitative Analyses	Published	11/179060	11-Jul-05			Applera Corporation
5310	CIP	Mass Tags for Quantitative Analyses	Published	11/555904	15-Feb-06			Applera Corporation
5968	PR1	Methods, Mixtures, Kits and Compositions Pertaining to Analyte Determination	CONVERTED	60/761711	24-Jan-06			Expired Provisional
5968	PR2	Methods, Mixtures, Kits and Compositions Pertaining to Analyte Determination	CONVERTED	60/764216	1-Feb-06			Expired Provisional
5968		Methods, Mixtures, Kits and Compositions Pertaining to Analyte Determination	Published	11/625688	22-Jan-07			Applera Corporation
6051	P	Analyte Determination Utilizing Mass Tagging Reagents comprising a Non-encoded Detectable Label	CONVERTED	60/818007	30-Jun-06			Expired Provisional
6051		Analyte Determination Utilizing Mass Tagging Reagents Comprising a Non-Encoded Detectable Label	Pending	11/769890	28-Jun-07			Applera Corporation
6171	P	Mass Differential Tagging Reagents and Methods	CONVERTED	60/809133	26-May-06			Expired Provisional
6171		Tagging Reagents and Methods for Hydroxylated Compounds	Published	11/754929	29-May-07			Applera Corporation
6191	P	Methods, mixtures, kits and compositions pertaining to analyte determination	CONVERTED	60/817513	30-Jun-06			Expired Provisional

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Case Number	Sub Case	Application Title	Application Status	Appl Number	File Date	Patent Number	Issue Date	Owner of Record
6191		Methods, Mixtures, Kits and Compositions Pertaining to Analyte Determination	Pending	11/770212	28-Jun-07			Applera Corporation
BP-0207	P	Methods, Mixtures And Kits Pertaining To Analyte Determination	CONVERTED	60/443612	30-Jan-03			Expired Provisional
BP-0207		Methods and Mixtures Pertaining To Analyte Determination	Published	10/765458	27-Jan-04			Applied Biosystems, Inc.
BP-0207	2	Methods and mixtures pertaining to analyte determination using electrophilic labeling reagents	Published	10/765264	27-Jan-04			Applera Corporation
BP-0207	03	Compositions and Kits Pertaining To Analyte Determination	Granted	10/765267	27-Jan-04	7195751	27-Mar-07	Applera Corporation
BP-0207	03C1	Methods, Compositions And Kits Pertaining To Analyte Determination	Abandoned	11/319685	28-Dec-05			Applera Corporation
BP-0207	3D1	Kits Pertaining To Analyte Determination	Pending	11/623510	16-Jan-07			Applied Biosystems LLC
BP-0207	03C2	Sets and Compositions Pertaining to Analyte Determination	Published	11/673809	12-Feb-07			Applera Corporation
BP-0207	03C3	Methods, Compositions and Kits Pertaining to Analyte Determination	Published	11/970470	7-Jan-08			Applera Corporation
BP-0302	P	Method And Apparatus For Deconvoluting A Convolved Spectrum	CONVERTED	60/524844	26-Nov-03			Expired Provisional
BP-0302		Method And Apparatus For Deconvoluting A Convolved Spectrum	Granted	10/916629	12-Aug-04	7105806	12-Sep-06	Applera Corporation
BP-0302	D1	Method And Apparatus For Deconvoluting A Convolved Spectrum	Granted	11/458082	17-Jul-06	7309858	18-Dec-07	Applera Corporation
BP-0302	CN	Method And Apparatus For Deconvoluting A Convolved Spectrum	Abandoned	11/566116	1-Dec-06			Applera Corporation
BP-0302	D1C1	Method And Apparatus For Deconvoluting A Convolved Spectrum	Published	11/871098	11-Oct-07			Applera

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Case Number	Sub Case	Application Title	Application Status	Appl Number	File Date	Patent Number	Issue Date	Owner of Record
		Convoluting A Convolved Spectrum						Corporation
BP-0302	D1C2	Method And Apparatus For De-Convoluting A Convolved Spectrum	Abandoned	11/871106	11-Oct-07			Applera Corporation
BP-0304		Analysis of Mass Spectral Data in the Quiet Zones	CONVERTED	60/525478	26-Nov-03			Expired Provisional
BP-0304	02	Analysis of Mass Spectral Data in the Quiet Zones	CONVERTED	60/547375	24-Feb-04			Expired Provisional
BP-0304	1	Analysis of Mass Spectral Data in the Quiet Zones	Published	10/999638	24-Nov-04			Applera Corporation
BP-0306		Active Esters of N-Substituted Piperazine Acetic Acids, Including Isotopically Enriched Versions Thereof	Abandoned	10/751354	5-Jan-04			Applied Biosystems, LLC
BP-0306	C1	Active Esters of N-Substituted Piperazine Acetic Acids, Including Isotopically Enriched Versions Thereof	Pending	12/398920	5-Mar-09			Applied Biosystems, LLC
BP-0307		Isotopically Enriched N-Substituted Piperazine Acetic Acids And Methods For The Preparation Thereof	Granted	10/751387	5-Jan-04	7355045	8-Apr-08	Applied Biosystems, LLC
BP-0307	C1	Isotopically Enriched N-Substituted Piperazine Acetic Acids And Methods For The Preparation Thereof	Pending	12/040470	29-Feb-08			Applied Biosystems, LLC
BP-0308		Isotopically Enriched N-Substituted Piperazines And Methods For The Preparation Thereof	Granted	10/751388	5-Jan-04	7307169	11-Dec-07	Applera Corporation
BP-0308	C1	Isotopically Enriched N-Substituted Piperazines And Methods For The Preparation Thereof	Published	12/001734	11-Dec-07			Applera Corporation
BP-0309		Mixtures of Isobarically Labeled	Abandoned	10/751353	5-Jan-04			Applera

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Case Number	Sub Case	Application Title	Application Status	Appl Number	File Date	Patent Number	Issue Date	Owner of Record
BP-0309	C1	Analytes And Fragments Ions Derived Therefrom Mixtures of Isobarically Labeled Analytes And Fragments Ions Derived Therefrom	Abandoned	10/822639	12-Apr-04			Corporation Applera Corporation
BP-0309	02	Isobarically labeled analytes and fragment ions derived therefrom	Published	10/852730	24-May-04			Applied Biosystems Inc. Expired Provisional
BP-0404	pr	Determination of Analyte Characteristics Based Upon Affinity Binding Properties	CONVERTED	60/549049	1-Mar-04			Applera Corporation
BP-0404		Determination of Analyte Characteristics Based Upon Affinity Binding Properties	Published	11/069277	1-Mar-05			Applera Corporation
SYP-172		Process for analyzing protein samples	Granted	09/851058	8-May-01	7045296	16-May-06	Applera Corporation; Institute for Systems Biology
SYP-190		Methods for isolation and labeling of sample molecules	Granted	09/858198	14-May-01	7183116	27-Feb-07	Applera Corporation; Institute for Systems Biology; University of Washington
SYP-190	D1	Methods for Isolating and Labeling Sample Molecules	Abandoned	10/615320	7-Jul-03			Applera Corporation; Institute for Systems Biology; University of Washington
SYP-190	PC	Methods for Isolating and Labeling Sample Molecules	Granted	10/477619	14-Nov-03	7364911	29-Apr-08	Applera Corporation; Institute for Systems Biology; University of Washington
SYP-208	PR	Expression Quantification Using Mass Spectrometry	CONVERTED	60/572826	19-May-04			Expired Provisional

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Case Number	Sub Case	Application Title	Application Status	Appl Number	File Date	Patent Number	Issue Date	Owner of Record
SYP-208		Expression Quantification Using Mass Spectrometry	Abandoned	11/134850	19-May-05			Applera Corporation
SYP-208	CIP	Expression Quantification Using Mass Spectrometry	Published	11/441457	25-May-06			Applera Corporation
SYP-208	CIP2	Expression Quantification Using Mass Spectrometry	Published	11/757620	4-Jun-07			Applera Corporation
SYP-236	PR	Amine-containing compound analysis methods	CONVERTED	60/651734	9-Feb-05			Expired Provisional
SYP-236		Amine-containing compound analysis methods	Published	11/350147	8-Feb-06			Applied Biosystems, LLC
SYP-236	CIP	Thyroxine-containing Compound Analysis Methods	Published	11/501675	8-Aug-06			Life Technologies Corporation
LT00040	PRO	Specific Analysis of Ketone and Aldehyde Analytes Using Reagent Compounds, Labeling Strategies, and Mass Spectrometry Workflow	Pending	61/182748	31-May-09			Pending

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Joint Venture Patents

Docket No.	Patent Title	Type	Status	Serial No.	Filed Dt	Patent No.	Issued Dt
IP-0001	A Method of and apparatus for ionizing an analyte and ion source probe for use therewith	Utility (Regular)	Issued	10/118,343	4/9/2002	6,759,650	7/6/2004
IP-0005	Analysis Technique. Incorporating Selectively Induced Collision Dissociation and Subtraction of Spectra (MS/MS ANALYSIS)	Utility (Regular)	Issued	09/592,436	6/12/2000	6,992,285	1/31/2006
	Apparatus and Method for MS-Nth in Tandem Mass Spectrometry	Nationalized PCT	Issued	10/433,473	12/14/2001	7,145,133	12/5/2006
	Atmospheric Pressure Photoionization (APPI)	Utility (Regular)	Issued	09/697,401	10/27/2000	6,534,765	3/18/2003
IP-0014	Axial Ejection In a Multipole Mass Spectrometer (Virus)	Continuation in Part (CIP)	Issued	09/087,909	6/1/1998	6,177,668	1/23/2001
IP-0017	Boundary Activated Dissociation in Rod-Type Mass Spectrometer	Utility (Regular)	Issued	09/084,778	5/27/1998	6,015,972	1/18/2000
	High Intensity Ion Source	Utility (Regular)	Issued	09/548,281	4/12/2000	6,586,731	7/1/2003
IP-0037	High Pressure MS/MS System	Utility (Regular)	Issued	09/066,556	4/28/1998	6,093,929	7/25/2000
IP-0040	Method and Apparatus for improving duty cycle in Mass Spectrometry (Title: Time of Flight Mass Spectrometer)	Provisional	Filed	60/567,817	5/5/2004		-N/A
	Ion Guide For Mass Spectrometer	Utility (Regular)	Notice of Allowance	11/122,034	5/5/2005		-N/A
IP-0041	MS/MS Scan Methods for a Quadrupole/Time of Flight Tandem Mass Spectrometer	Utility (Regular)	Issued	09/316,388	5/21/1999	6,285,027	9/4/2001
	Parent Ion Scan Method	Continuation in Part (CIP)	Issued	09/864,872	5/25/2001	6,507,019	1/14/2003

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Docket No.	Patent Title	Type	Status	Serial No.	Filed Dt	Patent No.	Issued Dt
	Ion Mobility Spectrometer Incorporating an Ion Guide in Combination with an MS Device	Utility (Regular)	Issued	10/004,800	12/7/2001	6,744,043	6/1/2004
IP-0046	Ion Source	Utility (Regular)	Issued	09/136312	8/19/1998	6,184,522	2/6/2001
	Mass Spectrometer with Method for Real Time Removal of Background Signal	Utility (Regular)	Issued	09/512,603	2/25/2000	6,525,312	2/25/2003
IP-0058	Mass Spectrometer with Radial Ejection (Quadrupole with Radial Ejection)	Utility (Regular)	Issued	08/514,369	8/11/1995	5,576,540	11/19/1996
IP-0063	Quadrupole Mass Analyzer and Method of Operation in RF only Mode to Reduce Background Signal	Utility (Regular)	Issued	09/238,549	1/28/1999	6,194,717	2/27/2001
IP-0069	Improved Ion Selection in Pseudo Neutral Loss Scan	Utility (Regular)	Issued	11/260,222	10/28/2005	7,417,223	8/26/2008
	Method for Improved Signal To Noise for Multiply Charged Ions	Utility (Regular)	Issued	09/081,552	5/20/1998	6,166,378	12/26/2000
IP-0075	Method for Improving Signal To Noise Ratios for Atmospheric Pressure Ionization Mass Spectrometry	Utility (Regular)	Issued	09/726,042	11/30/2000	6,700,120	3/2/2004
IP-0079	Method of Chemical Ionization at Reduced Pressure	Utility (Regular)	Issued	10/316,933	12/12/2002	6,969,848	11/29/2005
IP-0080	Method of Mass Spectrometry, To Enhance Separation of Ions with Different Charges (Multiply Charged Enhancement Scan for Ion Traps) (Working Title) (Virus) (Charge Separation)	Utility (Regular)	Issued	09/942,586	8/31/2001	7,041,967	5/9/2006
	Method of Operating a Mass Spectrometer Including a Low Level Resolving DC Input To Improve Signal To Noise Ratio	Utility (Regular)	Issued	08/961,771	10/31/1997	5,998,787	12/7/1999

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Docket No.	Patent Title	Type	Status	Serial No.	Filed Dt	Patent No.	Issued Dt
IP-0084	Method and System for High Throughput Quantitation of Small Molecules using Laser Desorption an Multiple-Reaction Monitoring	Utility (Regular)	Issued	10/400,322	3/27/2003	6,930,305	8/16/2005
	Method and System for High Throughput Quantitation of Small Molecules using laser description and multi-reaction-monitoring	Continuation in Part (CIP)	Issued	11/173,291	6/30/2005	7,388,194	6/17/2008
IP-0085	Method of Reducing Space Charge in a Linear Ion Trap Mass Spectrometry (Virus)	Utility (Regular)	Issued	10/232,588	8/30/2002	6,627,876	9/30/2003
	Method of Reduction of Chemical Background in Electrospray Mass Spectrometry	Utility (Regular)	Issued	09/845,766	5/2/2001	6,590,204	7/8/2003
IP-0098	Method and Apparatus for providing two dimensional substantially Quadrupole fields having selected Hexapole components	Provisional	Filed	60/505,422	9/25/2003		-N/A
	Method and Apparatus for providing two dimensional substantially Quadrupole fields having selected Hexapole components	Utility (Regular)	Issued	10/943,069	9/17/2004	7,141,789	11/28/2006
	Parallel sample introduction electrospray mass spectrometer with electronic indexing through multiple ion entrance orifices	Nationalized PCT	Issued	10/148,888	12/14/2000	6,784,422	8/31/2004
IP-0106	Quadrupole Mass Spectrometer with an Ion Trap to Enhance Sensitivity (Virus)	Utility (Regular)	Issued	09/320,668	5/27/1999	6,504,148	1/7/2003
IP-0108	Spectrometer with Axial Field (Linac)	Continuation in Part (CIP)	Issued	08/796,582	2/6/1997	5,847,386	12/8/1998
IP-0110	Quadrupole with Axial DC Field	Continuation	Issued	09/176,094	10/21/1998	6,111,250	8/25/2000
	Rf - Only Mass Spectrometer with Auxiliary Excitation	Utility (Regular)	Issued	09/071,934	5/4/1998	6,114,691	9/5/2000

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Docket No.	Patent Title	Type	Status	Serial No.	Filed Dt	Patent No.	Issued Dt
IP-0112 (continue d)	Resolving RF Mass Spectrometer	Utility (Regular)	Issued	08/957,936	10/27/1997	6,028,308	2/22/2000
IP-0125	Triple Quadrupole Mass Spectrometer with Capability to Perform Multiple Mass Analysis Steps (Virus)	Utility (Regular)	Issued	09/864,878	5/25/2001	6,720,554	4/13/2004
	Triple Quadrupole Mass Spectrometer with Capability to Perform Multiple Mass Analysis Steps (Virus)	Continuation in Part (CIP)	Issued	10/834,214	4/29/2004	7,060,972	6/13/2006
IP-0126	Use of Notched Broadband Waveforms in a Linear Ion Trap	Utility (Regular)	Issued	10/322,464	12/19/2002	6,815,673	11/9/2004
	BROAD ION FRAGMENTATION COVERAGE IN MASS SPECTROMETRY BY VARYING THE COLLISION ENERGY	Utility (Regular)	Issued	10/425,190	4/28/2003	7,199,361	4/3/2007
	BROAD ION FRAGMENTATION COVERAGE IN MASS SPECTROMETRY BY VARYING THE COLLISION ENERGY (virus) (qtrap) (stepping CE)	Nationalized PCT	Issued	10/512,766	4/2/2003	7,551,957	4/1/2008
IP-0134	Dynamic Background Subtraction (DBS) FOR Independent Data Acquisition on QTRAP (Virus)	Provisional	Filed	60/461,126	4/9/2003		-N/A
	Dynamic Background Subtraction (DBS) for Independent Data Acquisition (IDA) on QTRAP (VIRUS)	Utility (Regular)	Issued	10/819,954	4/8/2004	7,009,174	3/7/2006
	Dynamic Background Subtraction (DBS) for Independent Data Acquisition (IDA) on QStar	Provisional	Filed	60/688,326	6/8/2005		-N/A

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Docket No.	Patent Title	Type	Status	Serial No.	Filed Dt	Patent No.	Issued Dt
	DYNAMIC BACKGROUND SIGNAL EXCLUSION IN CHROMATOGRAPHY / MASS SPECTROMETRY DATA-DEPENDENT DATA ACQUISITION	Continuation in Part (CIP)	Issued	11/334,435	1/19/2006	7,351,956	4/1/2008
IP-0135	Fragmentation of Ions By Resonant Excitation In A High Order Multipole Field, Low Pressure Ion Trap (LIT) (Virus)	Utility (Regular)	Issued	10/310,003	12/4/2002	7,049,580	5/23/2006
	Fragmentation of Ions By Resonant Excitation In A High Order Multipole Field, Low Pressure Ion Trap (LIT) (Virus)	Nationalized PCT	Issued	10/508,950	4/2/2003	7,227,137	6/5/2007
IP-0136	METHODS AND APPARATUS FOR REDUCING ARTIFACTS IN MASS SPECTROMETERS (VIRUS) (LIT) (ARTIFACT FIX)	Provisional	Filed	60/384,655	5/30/2002		-N/A
	METHODS AND APPARATUS FOR REDUCING ARTIFACTS IN MASS SPECTROMETERS (VIRUS) (LIT) (ARTIFACT FIX)	Utility (Regular)	Issued	10/449,912	5/30/2003	6,909,089	6/21/2005
IP-0137	IMPROVED AXIAL EJECTION RESOLUTION IN MULTIPOLE MASS SPECTROMETERS (virus) (LIT) (RAMPING VOLTAGE)	Utility (Regular)	Issued	10/159,766	5/30/2002	6,703,607	3/9/2004
	Sample Introduction Device for Mass Spectrometry Using a Fast Fluidic System to Synchronize Multiple Parallel Liquid Sample Streams (Multi-Sprayer) (DEVICE)	Nationalized PCT	Issued	10/452,965	11/28/2001	6,841,774	1/11/2005

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Docket No.	Patent Title	Type	Status	Serial No.	Filed Dt	Patent No.	Issued Dt
IP-0149	Atmospheric Pressure Interface Particle Discriminator for Mass Spectrometry	Utility (Regular)	Issued	10/778,424	2/13/2004	7,098,452	8/29/2006
	Particle Discriminator for Atmospheric Pressure Interface	Continuation	Filed	11/447,785	6/7/2006		-N/A
IP-0150	Multi-Stroke TOF MS	Provisional	Filed	60/549,558	3/4/2004		-N/A
	Multi-Stroke TOF MS	Utility (Regular)	Issued	11/064,089	2/24/2005	7,126,114	10/24/2006
	Multi-Stroke TOF MS	Continuation in Part (CIP)	Filed	11/425,906	6/22/2006	7,504,621	3/17/2009
IP-0155	Mass Selective Axial Field (Phoenix)	Provisional	Filed	60/681,947	5/18/2005		-N/A
	METHOD AND APPARATUS FOR MASS SELECTIVE AXIAL TRANSPORT USING QUADRUPOLAR DC	Provisional	Filed	60/721,072	9/28/2005		-N/A
	Method and Apparatus for Mass Selective Axial Transport Using Quadrupolar DC	Utility (Regular)	Filed	11/434,814	5/17/2006		-N/A
IP-0156	System and Method for Modifying the Fringing Fields of a Radio Frequency Multipole	Utility (Regular)	Issued	10/448,376	5/30/2003	7,019,290	3/28/2006
IP-0176	Frontal Affinity Chromatography/MALDI Tandem Mass Spectrometry	Provisional	Filed	60/573,009	5/21/2004		-N/A
	Capillary Scale Frontal Affinity	Continuation in Part (CIP)	Issued	11/135,490	5/24/2005	7,317,187	1/8/2008
IP-0184	Method for providing barrier fields at the entrance and exit end of a mass spectrometer	Provisional	Filed	60/572,489	5/20/2004		-N/A
	Method and System for providing barrier fields at the entrance and exit end of a mass spectrometer	Provisional	Filed	60/572,490	5/20/2004		-N/A
	Method for providing barrier fields at the entrance and exit end of a mass spectrometer	Utility (Regular)	Issued	11/133,325	5/20/2005	7,227,130	6/5/2007

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Docket No.	Patent Title	Type	Status	Serial No.	Filed Dt	Patent No.	Issued Dt
	Method for providing barrier fields at the entrance and exit end of a mass spectrometer	Continuation	Issued	11/477,449	6/30/2006	7,365,319	4/29/2008
IP-0186	Method and Apparatus for Sample Deposition	Provisional	Filed	60/651,203	2/10/2005		-N/A
	Method and Apparatus for Sample Deposition	Provisional	Filed	60/651,362	2/8/2005		-N/A
	Method and Apparatus for Sample Deposition	Utility (Regular)	Filed	11/349,337	2/8/2006		-N/A
IP-0187	Tilted Rod Linear Ion Trap	Provisional	Filed	60/573,409	5/24/2004		-N/A
	Tilted Rod Linear Ion Trap	Utility (Regular)	Issued	11/135,426	5/24/2005	7,288,761	10/30/2007
IP-0189	Axial ejection with AC barrier	Utility (Regular)	Issued	11/122,097	5/5/2005	7,084,398	8/1/2006
IP-0193	Method and Apparatus for Improved Sensitivity in a Mass Spectrometer System	Utility (Regular)	Issued	11/032,376	1/10/2005	7,256,395	8/14/2007
IP-0215	Method for Scanning an Ion Trap Mass Spectrometer	Provisional	Filed	60/738,986	11/23/2005		-N/A
	Method for Scanning an Ion Trap Mass Spectrometer	Utility (Regular)	Filed	11/552,763	10/25/2006		-N/A
IP-0217	Method and Apparatus for Multi Path Ion Guide	Utility (Regular)	Notice of Allowance	11/222,971	9/12/2005	7358488	04/15/2008
IP-0219	Fragmenting Ions In Mass Spectrometry	Provisional	Filed	60/757,867	1/11/2006		-N/A
	Fragmenting Ions In Mass Spectrometry	Utility (Regular)	Filed	11/622,064	1/11/2007		-N/A
IP-0221	Systems and Methods for Calculating Ion Flux in Mass Spectrometry	Provisional	Filed	60/756,234	1/5/2006		-N/A
	Systems and Methods for Calculating Ion Flux in Mass Spectrometry	Utility (Regular)	Filed	11/619,858	1/4/2007		-N/A
IP-0225	Method for Storing and Reacting Ions in a Mass Spectrometer	Provisional	Filed	60/806,343	6/30/2006		-N/A
	Method for Storing and Reacting Ions in a Mass Spectrometer	Utility (Regular)	Published	11/769,254	6/27/2007		-N/A

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IP-0227	Dynamic pixel tissue imaging with MALDI-qTOF	Provisional	Filed	60/807,776	7/19/2006		-N/A
	Dynamic pixel tissue imaging with MALDI-qTOF	Utility (Regular)	Filed	11/779,970	7/19/2007		-N/A
IP-0229	Linear ion trap for precursor ion multiplexing	Provisional	Filed	60/740,640	11/30/2005		-N/A
	Method and Apparatus for Mass Selective Axial Transport Using Pulsed Axial Field	Utility (Regular)	Filed	11/558,952	11/13/2006		-N/A
IP-0230	Enhanced LC/MS target analysis through multiple standard additions	Provisional	Filed	60/686,920	6/3/2005		-N/A
	System and Method for Analysis of Compounds Using A Mass Spectrometer	Utility (Regular)	Filed	11/421,970	6/2/2006		-N/A
IP-0231	Automated Analysis of Complex Matrices Using Mass Spectrometer	Provisional	Filed	60/742,910	12/7/2005		-N/A
	Automated Analysis of Complex Matrices Using Mass Spectrometer	Provisional	Filed	60/803,355	5/27/2006		-N/A
	Automated Analysis of Complex Matrices Using Mass Spectrometer	Utility (Regular)	Filed	11/567,281	12/6/2006		-N/A
IP-0233	Method and apparatus for improving thermal stability in mass spectrometer	Utility (Regular)	Filed	11/548,311	10/11/2006		-N/A
IP-0234	Mass spectrometer method for thermal stability compensation	Utility (Regular)	Filed	11/548,322	10/11/2006		-N/A
IP-0235	Ion trap for positive and negative ions.	Provisional	Filed	60/788,093	4/3/2006		-N/A
	Ion trap for positive and negative ions.	Utility (Regular)	Filed	11/689,742	3/23/2007		-N/A
IP-0236	Method and Apparatus for Reducing Contamination in a Mass Spectrometer	Provisional	Filed	60/779,818	3/7/2006		-N/A

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	Method and Apparatus for Reducing Contamination in a Mass Spectrometer	Utility (Regular)	Filed	11,680,196	2/28/2007		-N/A
	Scan Time Data Pre-organization for Fast Post Scan Processing and Archival	Provisional	Filed	60/686,918	6/3/2005		-N/A
	Scan Time Data Pre-organization for Fast Post Scan Processing and Archival	Utility (Regular)	Issued	11/421,854	6/2/2006	7,391,015	6/24/2008
IP-0238	Ion Guide to Focus Ions from Free Jet	Continuation in Part (CIP)	Filed		-N/A		-N/A
IP-0242	Device for Generation of an Axial Gas Flow through an RF Multipole	Provisional	Filed	60/771,115	2/8/2006		-N/A
	Device for Generation of an Axial Gas Flow through an RF Multipole	Utility (Regular)	Filed	11/703,756	2/8/2007		-N/A
IP-0243	High-throughput Screening of Biological Disorders Using A Laser Desorption Ion Source Coupled To A Mass Analyzer	Provisional	Filed	61/025,052	1/31/2008		-N/A
	High-throughput newborn screening of inborn metabolic disorders using MALDI MS/MS.	Utility (Regular)	Filed		1/31/2008		-N/A
IP-0244	Multiple Ion Guides for Improved Ion Sampling Efficiency	Continuation in Part (CIP)	Issued	11/315,788	12/22/2005	7,259,371	8/21/2007
IP-0245	Improved Quadrupole Mass Analyzer with a Hexapole Field	Provisional	Filed	60/771,255	2/7/2006		-N/A
	Linear quadrupoles with added hexapole field and method of building and operating same	Utility (Regular)	Filed	11/703,478	2/7/2007		-N/A
IP-0248	Confining Ions with Fast Oscillating Electric Fields	Utility (Regular)	Filed	11/774,807	7/9/2007		-N/A
IP-0249	Mass Defect Triggered Information Dependent Acquisition	Utility (Regular)	Filed	11/620,061	1/5/2007		-N/A

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	Mass Defect Triggered Information Dependent Acquisition	Provisional	Filed	60/756,208	1/5/2006		-N/A
IP-0254	Potential lift for tandem mass spectrometry	Provisional	Filed	61/024,650	1/30/2008		-N/A
IP-0256	Ion source with collisional cooling	Provisional	Filed	60/885,788	1/19/2007		-N/A
	Apparatus And Method For Cooling Ions	Utility (Regular)	Filed	12/016,282	1/18/2008		-N/A
IP-0257	Method of Disulfide noise reduction (Chemical Noise Reduction for Mass Spectrometry)	Provisional	Filed	60/765,809	2/7/2006		-N/A
IP-0258	LASER DESORPTION ION SOURCE WITH ION GUIDE COUPLING FOR ION MASS SPECTROSCOPY	Continuation in Part (CIP)	Issued	11/317,368	12/22/2005	7,405,397	7/29/2008
IP-0259	Resonant excitation ion transfer	Provisional	Filed	60/807,779	7/19/2006		-N/A
	Resonant excitation ion transfer	Utility (Regular)	Published	11/778,954	7/17/2007		-N/A
IP-0260	Methods for cooling ions in a linear ion trap	Provisional	Filed	61/025,139	1/31/2008		-N/A
IP-0261	Capitalising on the unequal distribution of ion intensity across multiple anodes	Provisional	Filed	60/823,918	8/30/2006		-N/A
	Capitalising on the unequal distribution of ion intensity across multiple anode	Utility (Regular)	Filed	11/846,719	8/29/2007		-N/A
IP-0262	COLLISION CELL FOR MASS SPECTROMETER	Provisional	Filed	60/973,547	9/19/2007		-N/A
IP-0263	Method for removing noise from mass spectra	Provisional	Filed	60/887,915	2/2/2007		-N/A
	SYSTEMS AND METHODS FOR REDUCING NOISE FROM MASS SPECTRA	Utility (Regular)	Filed	12/023,873	1/31/2008		-N/A
IP-0264	Apparatus and Methods for Mass Calibrant Introduction	Provisional	Filed	60/826,811	9/25/2006		-N/A

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	MULTIPLE SAMPLE SOURCES FOR USE WITH MASS SPECTROMETERS. AND APPARATUS, DEVICES, AND METHODS THEREFOR	Utility (Regular)	Filed	11/860,899	9/25/2007		-N/A
	Apparatus and Methods for Mass Calibrant Introduction	Provisional	Filed	60/867,123	11/23/2006		-N/A
IP-0267	Methods for Fragmenting Ions in a Linear Ion Trap	Provisional	Filed	61/025,023	1/31/2008		-N/A
IP-0268	Method of Operating a Linear Ion Trap to Provide Low Pressure Short Time High Amplitude Excitation	Provisional	Filed	61/025,037	1/31/2008		-N/A
IP-0274	Axial Ejection and In-Trap Fragmentation Using Auxiliary Electrodes in a Multipole Mass Spectrometer	Provisional	Filed	60/827,234	9/28/2006		-N/A
	Method for Axial Ejection and In-Trap Fragmentation Using Auxiliary Electrodes in a Multipole Mass Spectrometer	Utility (Regular)	Published	11/839,081	8/15/2007		-N/A
IP-0275	METHODS FOR DATA PROCESSING	Utility (Regular)	Filed	11/848,717	8/31/2007		-N/A
IP-0279	A Multipole Ion Guide for Providing an Axial Electric Field whose Strength Increases with Radial Position, and a Method of Operating a Multipole Ion Guide Having Such an Axial Electric Field	Provisional	Filed	61/059,962	6/9/2008		-N/A
IP-0281	LC/MS/MS Analysis of Conjugated Metabolites of Alcohol Consumption	Provisional	Filed	60/976,539	10/1/2007		-N/A
IP-0287	Multipole Mass Filter Having Improved Mass Resolution	Utility (Regular)	Filed	11/743,176	5/2/2007		-N/A
IP-0289	Method for Enhancing Mass Assignment Accuracy	Utility (Regular)	Filed	11/842,251	8/21/2007		-N/A

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IP-0290	Method for Enhancing the Duty Cycle of an Ion Trap Mass Spectrometer	Provisional	Filed	60/896,620	3/23/2007		-N/A
	Method for Enhancing the Duty Cycle of an Ion Trap Mass Spectrometer	Utility (Regular)	Filed	12/034,097	2/20/2008		-N/A
IP-0297	Systems and Method of Analyzing Substances Using a Mass Spectrometer	Provisional	Filed	60/992,172	12/4/2007		-N/A
IP-0298	Systems and Methods for Analyzing Substances Using a Mass Spectrometer	Provisional	Filed	61/038068	3/20/2008		-N/A
IP-0304	Interface between DMA and mass spectrometer	Provisional	Filed	60/980,857	10/18/2007		-N/A
IP-0305	High resolution excitation/isolation of ions in a low pressure linear ion trap	Provisional	Filed	60/986,687	11/9/2007		-N/A
IP-0313	Interface between DMA and mass spectrometer	Provisional	Filed	60/989,873	11/23/2007		-N/A
IP-0314	Method of Quantitation by Mass Spectrometry	Utility (Regular)	Filed	12/032,263	2/15/2008		-N/A
IP-0315	Method of Improving Signal-to-Noise for Quantitation by Mass Spectrometry	Utility (Regular)	Filed	12/035,499	2/22/2008		-N/A
IP-0319	Method and Apparatus for Reducing Space Charge in an Ion Trap	Provisional	Filed	61/017,203	12/28/2007		-N/A
IP-0338	Relative Noise	Utility (Regular)	Filed	12/102,537	4/14/2008		-N/A
IP-0339 (continue d)	Linear Faims power supply	Provisional	Filed	60/986,907	11/9/2007		-N/A
IP-0343	Vacuum Driven Differential Mobility Spectrometer/Mass Spectrometer Interface with Adjustable Resolution and Selectivity	Provisional	Filed	61/057,242	5/30/2008		-N/A

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	Method and System for metering Modifier in Differential Mobility Spectrometer/Mass Spectrometer	Provisional	Filed	61/057,531	5/30/2008		-N/A
IP-0559	Method of Operating a Linear Ion Trap to Provide Low Pressure Short Time High Amplitude Excitation with Pulsed Pressure	Provisional	Filed	61/025,057	1/31/2008		
4013	TIME OF FLIGHT MASS SPECTROMETER W/APERTURE ENABLING TRADE OF/TRANSMISSION EFFICIENCY/RES	ORD	Granted	07/691272	4/25/1991	5300774	4/5/1994
5461	Method and System for Identifying Polypeptides	ORD	Published	11/246722	10/6/2005		
5522	Methods and Systems for Discovering Protein Modifications and Mutations	ORD	Published	11/217257	8/31/2005		
5665	Methods and Apparatus for Time-of-Flight Mass Spectrometer	PRI	Allowed	11/548311	10/11/2006		
5666	Methods and Apparatus for Time-of-Flight Mass Spectrometer	PRI	Allowed	11/548322	10/11/2006		
5687	Method and Apparatus for Improved Sensitivity in a Mass Spectrometer	RCE	Granted	11/032376	1/10/2005	7256395	8/14/2007
5687	Method and Apparatus for Improved Sensitivity in a Mass Spectrometer	RCE	Granted	11/515788	12/22/2005	7259371	8/21/2007
5877	Power Supply Regulation Using a Feedback Circuit Comprising an AC and DC Component	PRI	Allowed	11/429371	5/5/2006		
5882	Methods and Systems for Mass Defect Filtering of Mass Spectrometry Data	ORD	Published	11/474128	6/23/2006		
5949	Methods for the Development of a Biomolecule Assay	ORD	Published	11/580221	10/12/2006		

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5950	Methods And Systems For Sequence-Based Design Of Multiple Reaction Monitoring Transitions And Experiments	ORD	Published	11/777248	7/12/2007		
6087	Method and Apparatus for Generating Ions for Mass Analysis	ORD	Published	11/680196	2/28/2007		
6170	Chemical Noise Reduction for Mass Spectrometry	ORD	Published	11/672101	2/7/2007		
6457	Methods For Data Processing	PRI	Pending	11/848717	8/31/2007		
SYP-060	MASS SPECTROMETER SYSTEM AND METHOD FOR MATRIX-ASSISTED LASER DESORPTION MEASUREMENTS	ORD	Granted	08/278405	7/21/1994		3/12/1996
SYP-060	MASS SPECTROMETER SYSTEM AND METHOD FOR MATRIX-ASSISTED LASER DESORPTION MEASUREMENTS	REI	Granted	09/755951	1/4/2001		10/17/2006
SYP-060	MASS SPECTROMETER SYSTEM AND METHOD FOR MATRIX-ASSISTED LASER DESORPTION MEASUREMENTS	REI	Granted	09/038324	3/11/1998		12/25/2001
SYP-111	Improvements in Time of Flight Mass Spectrometry Analysis of Biomolecules	CON	Granted	09/352246	7/13/1999		5/2/2000
SYP-111	Improvements in Time of Flight Mass Spectrometry Analysis of Biomolecules	CON	Granted	08/488127	6/7/1995		5/6/1997
SYP-111	Improvements in Time of Flight Mass Spectrometry Analysis of Biomolecules	ORD	Granted	08/446544	5/19/1995		4/29/1997
SYP-111	Improvements in Time of Flight Mass Spectrometry Analysis of Biomolecules	CON	Granted	09/527697	3/16/2000		8/28/2001

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SYP-111	Improvements in Time of Flight Mass Spectrometry Analysis of Biomolecules	DIV	Granted	08/730822	10/17/1996		6/2/1998
SYP-111	Improvements in Time of Flight Mass Spectrometry Analysis of Biomolecules	CON	Granted	09/058605	4/10/1998		12/14/1999
SYP-111	Improvements in Time of Flight Mass Spectrometry Analysis of Biomolecules	CON	Granted	09/086861	5/29/1998		4/1/2003
SYP-114	METHODS AND APPARATUS FOR SEQUENCING POLYMERS WITH A STATISTICAL CERTAINTY USING MASS SPECTROMETRY	ORD	Granted	08/447175	5/19/1995		2/9/1999
SYP-115	METHODS AND APPARATUS FOR SEQUENCING POLYMERS USING MASS SPECTROMETRY	DIV	Granted	08/844462	4/18/1997		10/13/1998
SYP-115	METHODS AND APPARATUS FOR SEQUENCING POLYMERS USING MASS SPECTROMETRY	ORD	Granted	08/796598	2/7/1997		10/27/1998
SYP-137	A TANDEM TIME-OF-FLIGHT MASS SPECTROMETER WITH DELAYED EXTRACTION AND METHOD FOR USE	CIP	Granted	09/233703	1/19/1999		2/19/2002
SYP-137	Tandem time-of-flight mass spectrometer with delayed extraction and method for use	CON	Granted	10/023203	12/17/2001		8/3/2004
SYP-148	A Tandem Time-of-Flight Mass Spectrometer with Damping in Collision Cell and Method for Use	ORD	Granted	09/590878	6/9/2000		3/18/2003
SYP-149	Method and Apparatus for Determining Molecular Weight of Labile Molecules	ORD	Granted	09/579989	5/26/2000		1/7/2003

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SYP-157	Preparation of Ion Pulse for Time-of-Flight and for Tandem Time-of-Flight Mass Analysis	DIV	Granted	10/356019	2/3/2003		12/30/2003
SYP-157	Preparation of ion pulse for time-of-flight and for tandem time-of-flight mass analysis	ORD	Granted	09/546465	4/10/2000		4/8/2003
SYP-163	A Tandem Time-of-Flight Mass Spectrometer with Improved Mass Resolution	CON	Granted	10/178631	6/24/2002		1/28/2003
SYP-163	A Tandem Time-of-Flight Mass Spectrometer with Improved Mass Resolution	ORD	Granted	09/712882	11/15/2000		8/27/2002
SYP-166	Apparatus And Process for Transporting Sample Plates	RCE	Granted	09/886734	6/21/2001		8/30/2005
SYP-173	Robotic system having positionally adjustable multiple probes	ORD	Granted	10/045518	10/26/2001		1/6/2004
SYP-177	Tandem time-of-flight mass spectrometer with improved performance for determining molecular structure	ORD	Granted	10/198372	7/18/2002		9/16/2003
SYP-179	Method for Characterizing Biomolecules Utilizing A Result Driven Strategy	ORD	Granted	10/646371	8/22/2003	6940065	9/6/2005
SYP-182	MALDI Plate and Process for Making a MALDI Plate	ORD	Granted	10/227088	8/23/2002		5/31/2005
SYP-183	Mass Spectrometer and Method with Improved Ion Transmission (Collisional Focusing)	PRI	Granted	07/437/047	11/15/1989	4963736	10/16/1990
SYP-184	Time-of-flight mass analyzer with multiple flight paths	RCE	Granted	10/327471	12/20/2002		8/23/2005
SYP-190	Methods for isolation and labeling of sample molecules (co-owned by AB/Institute for Systems Biology/University of Washington)	ORD	Granted	09/858198	5/14/2001	7183116	2/27/2007

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SYP-190	Methods for isolation and labeling of sample molecules (co-owned by AB/Institute for Systems Biology/University of Washington)	PCT	Granted	10/477619	11/14/2003	7364911	4/29/2008
SYP-194	Mass Spectrometer (co-owned w/Hitachi)	RCE	Granted	10/401944	3/31/2003	7064319	6/20/2006
SYP-195	Ion source and methods for MALDI mass spectrometry	PRI	Granted	10/700300	10/31/2003	6953928	10/11/2005
SYP-195	Ion Source and Methods for MALDI Mass Spectrometry	CON	Granted	11/065341	2/23/2005	7109480	9/19/2006
SYP-196	MALDI Plate with Removable Insert	PRI	Granted	10/683794	10/10/2003		1/18/2005
SYP-199	Reduction of Matrix Interference for MALDI Mass Spectrometry Analysis	ORD	Granted	10/914395	8/9/2004	6995363	2/7/2006
SYP-200	Maldi Plate with Removable Magnetic Insert	PRI	Granted	10/683024	10/10/2003		11/30/2004
SYP-201	MALDI Plate Construction with Grid	PRI	Granted	10/742423	12/19/2003	7030373	4/18/2006
SYP-202	Improved Matrix with Noise Reduction Additive and Disposable Target Containing the Same	ORD	Published	11/019062	12/21/2004		
SYP-203	Fluid Processing Device	PRI	Published	10/891646	7/15/2004		
SYP-211	Ion Optics Systems	DIV	Pending	11/862000	9/26/2007		
SYP-211	Ion Optics Systems	PRI	Granted	11/042592	1/24/2005	7351958	4/1/2008
SYP-212	Identification of modified peptides using a MALDI TOF mass spectrometer	ORD	Published	11/104741	4/13/2005		
SYP-219	Methods of Operating Ion Optics for Mass Spectrometry	PRI	Granted	11/129661	5/13/2005	7385186	6/10/2008
SYP-220	Ion Sources for Mass Spectrometry	ORD	Granted	11/129658	5/13/2005	7176454	2/13/2007
SYP-222	Sample Handling Mechanisms and Methods for Mass Spectrometry	PRI	Granted	11/129647	5/13/2005	7405396	7/29/2008

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SYP-226	Ion Optical Mounting Assemblies	PRI	Granted	11/129022	5/13/2005	7265368	9/4/2007
SYP-233	Ion Optics Systems	PRI	Allowed	11/042191	1/24/2005		
SYP-253	Mass Analyzer Systems and Methods for Their Operation	PRI	Granted	11/129204	5/13/2005	7351959	4/1/2008
IP-0052	Mass Spectrometer and Method with Improved Ion Transmission		Issued	07/437,047	11/15/1989	4,963,736	10/16/1990
IP-0076	Method for Increase Resolution In Tandem Mass Spectrometry (Collision Cell)		Issued	07/873,149	4/24/1992	5,248,875	9/28/1993
IP-0243	High throughput screening of metabolic disorders		Filed	12/362,796	1/30/2009		
IP-0254	Ion Fragmentation in Mass Spectrometry		Filed	12/362,831	1/30/2009		-N/A
IP-0257	Chemical Noise Reduction for Mass Spectrometry		Filed	12/411,140	3/25/2009		-N/A
IP-0257	Chemical Noise Reduction For Mass Spectrometry		Issued	11/672,101	2/7/2007	7,528,365	5/5/2009
IP-0260	Method For Cooling Ions In A Linear Ion Trap		Filed	12/359,563	1/26/2009		-N/A
IP-0262	Collision Cell For Mass Spectrometer		Filed	12/232,618	9/19/2008		-N/A
IP-0267	Methods For Fragmenting Ions in a Linear Ion Trap		Filed	12/359,621	1/26/2009		-N/A
IP-0268	Method of Operating a Linear Ion Trap To Provide Low Pressure Short Time High Amplitude Excitation		Filed	12/359,471	1/26/2009		-N/A
IP-0281	LC/MS/MS Analysis of Conjugated Metabolites of Alcohol Consumption		Filed	12/285,024	9/29/2008		-N/A
IP-0297	The use of confirmation ions for correcting for retention time drifts in LC/MS		Filed	12/326,241	12/2/2008		-N/A
IP-0298	SYSTEMS AND METHODS FOR ANALYZING SUBSTANCES USING A MASS SPECTROMETER		Filed	12/402,954	3/5/2009		-N/A
IP-0304	Interface between DMA and mass spectrometer		Filed	12/254,244	10/20/2008		-N/A
IP-0305	High resolution excitation/isolation of ions in a low pressure linear ion trap		Filed	12/240,060	9/29/2008		-N/A
IP-0313	Interface between DMA and mass spectrometer		Filed	12/275,597	11/21/2008		-N/A

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Docket No.	Patent Title	Type	Status	Serial No.	Filed Dt	Patent No.	Issued Dt
IP-0319	Method and Apparatus for Reducing Space Charge in an Ion Trap		Filed	12/272,998	11/18/2008		-N/A
IP-0337	Method, System and Apparatus for Multiplexing Ions in MSn Mass Spectrometry Analysis		Filed	61/101,862	10/17/2008		-N/A
IP-0572	Method Of Operating Tandem Ion Traps		Filed	61/120,674	12/8/2008		-N/A
IP-0574	Apparatus and Method of Photo-fragmentation		Filed	61/152,376	2/13/2009		-N/A
IP-0582	Ion Optics Drain for Ion Mobility		Filed	61/160,925	3/17/2009		-N/A
IP-0584	Detecting Components of a Convolved Peak		Filed	61/057,719	5/30/2008		-N/A
IP-0584	Method for Identifying a Convolved Peak		Filed	12/200,636	8/28/2008		-N/A
IP-0635	Nonlinear RF Ion Trap		Filed	61/223,201	7/6/2009		-N/A
5519	Method of Screening Urine for Organic Acids		Published	11/296646	6-Dec-05		
5519	Method of Screening Urine for Organic Acids	Pr	Expired Provisional	60/634006	6-Dec-04		
5858	Scientist Domain-Centric User Interface and Enabling 'Soft' Translation		Issued	11/480214	30-Jun-06	7356418	8-Apr-08
5858	Scientist Domain-Centric User Interface and Enabling 'Soft' Translation	C1	Published	12/099745	8-Apr-08		
5858	Scientist Domain-Centric User Interface and Enabling 'Soft' Translation	Pr	Converted	60/696077	30-Jun-05		
5877	High Voltage Power Supply Regulation Method	DV	Pending	12/350773	8-Jan-09		
6944	Methods and Systems for Background correction in Tandem Mass Spectrometry Based Quantitation		Published	12/208277	10-Sep-08		
6944	Background/Noise Correction MS/MS Based Quantitation	Pr	Converted	60/971192	10-Sep-07		
7032	Methods and Systems for Analysis and Correction of Mass Spectrometer Data		Pending	12/476141	1-Jun-09		

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Docket No.	Patent Title	Type	Status	Serial No.	Filed Dt	Patent No.	Issued Dt
7032	Methods and Systems for Analysis and Correction of Mass Spectrometer Data	Pr	Converted	61/057702	30-May-08		
7141	Intelligent Saturation Control for Compound Specific Optimization of MRM		Pending	12/476133	1-Jun-09		
7141	Methods and Systems for Analysis of Mass Spectrometer Data and Optimization of Run Parameters	Pr	Converted	61/057733	30-May-08		
SYP-123	Methods for Determining Sequence Information in Polynucleotides Using Mass Spectrometry		Issued	08/726,090	4-Oct-96	5,885,775	23-Mar-99
SYP-202	Improved Matrix with Noise Reduction Additive and Disposable Target Containing the Same	PR	CONVERTED	60/532660	23-Dec-03		
SYP-220	3 Stage MALDI Source for enhanced dynamic focusing for general-purpose MALDI TOF spectrometer	PR	CONVERTED	60/651567	9-Feb-05		

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Additional Joint Venture Patents (1)

MDS File No.	File Date	Serial No.	App Type	Patent Title
IP-0318PR	3/27/2009	61/164,088	Provisional	Heated TOF Source
IP-0336PR	1/9/2009	61/204,726	Provisional	Mass Spectrometer
IP-0341PR	3/20/2009	12/408,026	Provisional	Method of mass selection in a Linear Ion Trap
IP-0349PR	3/27/2009	61/164,137	Provisional	Heated Optical Components
IP-0574PR	2/13/2009	61/152,376	Provisional	Apparatus and Method of Photo-fragmentation
IP-0582PR	3/17/2009	61/160,925	IP-0582PR	Ion Optics Drain for Ion Mobility
IP-0342PR	5/27/2009	61/181,409	Provisional	Method for High Efficiency Tandem Mass Spectrometry
IP-0590PR	5/27/2009	61/181,393	Provisional	Linear Ion Trap for MSMS
IP-0591PR	5/27/2009	61/181,399	Provisional	Mass Selector
IP-0612US	5/29/2009	12/474,418	Utility (Regular)	Method for Processing Large Amounts of Data
IP-0330US	6/9/2009	12/480,829	Utility (Regular)	An Inductive Method of Providing, in a Linear Multipole Ion Guide, an Axial Electric Field, Whose Strength Increases with Radial Position
IP-0572US	6/8/2009	12/480,160	Utility (Regular)	Method and Device to Analyze Large Ion Populations in Linear Ion Traps (Tandem Ion Traps)
IP-0343US	5/27/2009	12/472,980	Utility (Regular)	Method and System for Providing a Modifier to a Curtain Gas for a Mobility Spectrometer
IP-0343US2	5/28/2009	12/473,859	Utility (Regular)	Vacuum Driven Differential Mobility Spectrometer/Mass Spectrometer Interface with Adjustable Resolution and Selectivity
IP-0243US	1/30/2009	12/362,796	Utility (Regular)	HIGH-THROUGHPUT SCREENING OF METABOLIC DISORDERS USING A LASER DESORPTION ION SOURCE COUPLED TO A MASS ANALYZER
IP-0254US	1/30/2009	12/362,831	Utility (Regular)	Ion Fragmentation in Mass Spectrometry
IP-0260US	1/26/2009	12/359,563	Utility	Method For Cooling Ions In A Linear Ion

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MDS File No.	File Date	Serial No.	App Type	Patent Title
IP-0267US	1/26/2009	12/359,621	Utility (Regular)	Trap Methods For Fragmenting Ions in a Linear Ion Trap
IP-0268US	1/26/2009	12/359,471	Utility (Regular)	Method of Operating a Linear Ion Trap To Provide Low Pressure Short Time High Amplitude Excitation
IP-0298US	3/5/2009	12/402,954	Utility (Regular)	SYSTEMS AND METHODS FOR ANALYZING SUBSTANCES USING A MASS SPECTROMETER
IP-0559US	1/26/2009	12/359,526	Utility (Regular)	Pulsed Pressure

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Additional Joint Venture Patents (2)

MDS File No.	File Date	Issue Date	Serial No.	Tech ID	Patent No.	App Type	Patent Title
1659-1	6/22/2006	3/17/2009	11/425,906	IP-0150	7504621	(CIP)	Multi-Stroke TOF MS

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Schedule B

Trademarks

Mark	Status	Date Filed	Application Number	Registration Date	Registration Number	Owner/Comments
ANALYST	Registered	1/5/1999	75/615,796	6/19/2001	2462348	Applied Biosystems/MDS Sciex Instruments
LIQUID	Registered	5/24/2006	78/891,470	1/1/2008	3363678	Applied Biosystems/MDS Sciex Instruments
DATA EXPLORER	Registered	12/23/1998	75/609,687	2/19/2002	2540925	Applied Biosystems/MDS Sciex Instruments
DELAYED EXTRACTION	Registered	3/11/1997	75/255,599	4/20/1999	2241354	Applied Biosystems/MDS Sciex Instruments
FLASHID	Allowed	4/2/2007	77/146,490			Applied Biosystems/MDS Sciex Instruments
FLASHLASER	Allowed	4/2/2007	77/146,495			Applied Biosystems/MDS Sciex Instruments
FLASHQUANT	Allowed	4/2/2007	77/146,484			Applied Biosystems/MDS Sciex Instruments
FLASHVIEW	Allowed	4/2/2007	77/146,488			Applied Biosystems/MDS Sciex Instruments
IMETHODS	Pending	1/9/2008	77/368,010			Applied Biosystems/MDS Sciex Instruments
IONCOOLER	Abandoned 7/8/2009	8/29/2008	77/559,308			Abandoned - failure to respond to Office Action
ITRAQ	Registered	11/21/2003	78/331,745	2/6/2007	3206615	Applera Corporation 11/21/1998 Security Interest from Applied Biosystems, LLC; to Bank of America; Recorded 12/5/2008; Reel/Frame 3898/0616 UNRELEASED
LIGHTSIGHT	Registered	3/2/2006	78/828,041	4/8/2008	3410718	Applied Biosystems/MDS Sciex Instruments
LINAC	Registered	1/27/1998	75/423,985	12/10/2002	2659778	Applied Biosystems/MDS Sciex Instruments

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Mark	Status	Date Filed	Application Number	Registration Date	Registration Number	Owner/Comments
MALDI TOF/TOF	Registered	8/6/2001	78/077,663	7/9/2002	2593108	Applied Biosystems/MDS Sciex Instruments
MICROIONSPRAY	Registered	11/2/1995	75/014,098	6/4/2002	2574782	Applied Biosystems/MDS Sciex Instruments
MTRAQ	Registered	6/20/2006	78/912,653	3/31/2009	3600394	Appera Corporation
NANOSPRAY	Registered	5/26/1995	74/680,298	12/23/2003	2796411	Applied Biosystems/MDS Sciex Instruments
OPTI-TOF	Registered	6/16/2004	78/436,380	12/13/2005	3027341	Applied Biosystems/MDS Sciex Instruments
PHOTOSPRAY	Registered	12/20/2001	78/099,354	1/11/2005	2917905	Applied Biosystems/MDS Sciex Instruments
Q TRAP	Registered	10/24/2001	78/089,943	6/24/2003	2730949	Applied Biosystems/MDS Sciex Instruments
QJET	Registered	10/11/2004	78/497,990	4/10/2007	3228531	Applied Biosystems/MDS Sciex Instruments
QSTAR	Registered	9/25/1998	75/559,697	4/9/2002	2559238	Applied Biosystems/MDS Sciex Instruments
TURBOIONSPRAY	Registered	2/11/1999	75/640,799	2/13/2001	2428832	Applied Biosystems/MDS Sciex Instruments

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