

12-26-2000

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PATENT  
03141-P0049A WWW

101561990

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assignor:	Perkin-Elmer Corporation
Assignee:	Perkin Elmer LLC
Patent No. <u>5,711,786</u>	Issue Date: January 27, 1998
Title of Application:	Gas Chromatographic System With Controlled Sample Transfer

Box Assignment  
Assistant Commissioner for Patents  
Washington, DC 20231

**Assignment Recordation Form Cover Sheet**

Dear Sir:

Please record the attached original document.

1. Name of conveying party(ies). Perkin-Elmer Corporation.
2. Name and Address of Receiving Party. Perkin Elmer LLC; located at 761 Main Avenue; Norwalk, CT 06859-0119.
3. Nature of Conveyance: Assignment. Execution Date: July 18, 2000
4. Name and Address of Party to Whom Correspondence Concerning Document should be mailed.

Wesley W. Whitmyer, Jr., Registration No. 33,558  
Attorney for Assignee  
ST.ONGE STEWARD JOHNSTON & REENS LLC  
986 Bedford Street  
Stamford, CT 06905-5619  
203 324-6155

Mailing Certificate: I hereby certify that this correspondence is today being deposited with the U.S. Postal Service as *First Class Mail* in an envelope addressed to: Box Assignment; Commissioner of Patents and Trademarks; Washington, DC 20231.

December 4, 2000

Danielle Dominici

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12/22/2000 MTHAI

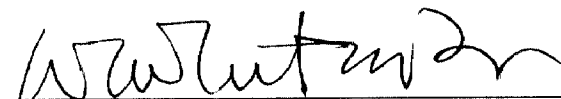
01 FC:581

40.00 DP

PATENT  
REEL: 011347 FRAME: 0580

5. Patent Number: 5,711,786.
6. Total Number of Patents Involved: 1.
7. Total Fee (37 CFR 3.41). \$40.00 due. A check for this amount is enclosed.
8. Authorization to Charge Deposit Account. The Commissioner is hereby authorized to charge any additional fees due by this paper and during the entire pendency of this Application to Account No. 19-4516.
9. Statement and Signature. Total number of pages including cover sheet, attachments and document are 16. To the best of my knowledge and belief, the foregoing information is true and correct.

Respectfully submitted,



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Wesley W. Whitmyer, Jr., Registration No. 33,558  
Attorney for Assignee  
ST. ONGE STEWARD JOHNSTON & REENS LLC  
986 Bedford Street; Stamford, CT 06905-5619  
Telephone: 203 324-6155

# CONFIRMATORY ASSIGNMENT

WHEREAS, Perkin Elmer LLC is desirous of recording its ownership of the patents and patent applications listed on the attached Exhibit A in the various Patent Offices throughout the world;

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is acknowledged, Perkin-Elmer Corporation whose post office address is 761 Main Avenue; Norwalk, CT 06859, hereby conveys, assigns and transfers its entire right, title and interest in and to the patents and patent applications listed on the attached exhibit A, including but limited to the right to sue and collect damages for past infringement of said Patents to Perkin Elmer LLC, a Delaware corporation whose post office address is, 761 Main Avenue; Norwalk, CT 06859.

Executed this 18<sup>th</sup> day of July, 2000, at Connecticut, [State].

(Assignor)  
Perkin-Elmer Corporation (*now named PE Corporation (NP)*)

By 

Name: Thomas Livingston

Title: ~~Assistant~~ Secretary

State of Connecticut

SS.

County of Fairfield

Before me personally appeared Thomas Livingston and acknowledged the foregoing instrument to be his free act and deed this 18 day of July, 2000.

Notary Public 

Perkin Elmer No.	Maker Code	Maker Name	EXHIBIT A	Country	Status	Registration Number	Issue Date	Serial Number	File Date
0695	P0003ASE	Automatic Variable Filters For Use In Scanned Spectrometers		Sweden	Pending			11489-6	187309/23
2103	P0001AJP	Flame Ionization Detector Status Indicator		Japan	Pending			160B-48	187812/28
2357	P0005AJP	Detector Cell Assembly		Japan	Pending			60305/86	188800/423
3602 (AWK/UR/8)	P0015AJP	High Resolution Stepping Motor Drive		Japan	Pending	2,730,577	1987/12/19	276469/87	188711/106
3828	P0016AJP	Ultra Frequency Stepping Voltage-To-Frequency Converter System		Japan	Granted	3,000,314	2000/04/28	02-2059/8	1990/08/02
3808	P0019ADE	Circuit For Synchronizing Digital Signals		Germany	Pending			P39277/8.2	1988/08/23
3973	P0020ADE	Application Of Kilmann Fraying To ICP Spectra		Germany	Pending			P41000/46.3	1991/01/03
3984	P0021AJP	3 Point Bending Measuring System		Japan	Allowed	3,032,900	2000/02/19	2-304227	1991/01/13
4014	P0023ADE	Pumpjet Heating Mechanism For Use In Chromatography		Germany	Pending			P41107/63.2	1991/04/03
4015	P0024AJP	Pumpjet Heating Mechanism For Use In Chromatography		Japan	Granted	3,057,380	2000/04/21	5-7326/81	1991/02/05
4015	P0024AJP	Vial Locator And Sensor		Canada	Pending			2,035,916	1991/02/07
4037	P0025AJP	Circuit For Heating And Sensing With A Single Element		Japan	Granted	5-1,041,660	1993/09/30	333027/81	1991/02/27
4045	P0027ACA	Standardizing And Calibrating A Spectrometric Instrument		Canada	Pending			91321135.7	1991/12/16
4045	P0027AJP	Standardizing And Calibrating A Spectrometric Instrument		Japan	Granted	0498063		03-345215	1991/04/05
4045	P0027AJP	Standardizing And Calibrating A Spectrometric Instrument		Japan	Granted	4,310,630		2,087,360	1992/01/15
4045	P0027AJP	Standardizing And Calibrating A Spectrometric Instrument		Japan	Granted	560,006		97250178.7	1992/02/03
4045	P0027AJP	Standardizing And Calibrating A Spectrometric Instrument		Japan	Granted	6,082,307		05-017343	1992/05/09
4045	P0027AJP	Standardizing And Calibrating A Spectrometric Instrument		Japan	Granted	1837/93		1837/93	1992/02/12
4046	P0028ACA	Photobedator Amplitude Linearity		Canada	Pending			2,087,821	1992/01/19
4046	P0028AJP	Photobedator Amplitude Linearity		Japan	Granted	6-88745	1984/03/29	05-023171	1992/01/19
4067	P0029AJP	Photobedator Amplitude Linearity		Korea	Granted	247,171	1989/12/10	728/93	1992/01/21
4070	P0031AJP	Industry Coupled Plasma Generator		Japan	Pending			115169/93	1982/04/20
4076	P0033ADE	Single Element Thermal Conductivity Detector		Japan	Pending	5-223771	1993/08/31	241447/92	1992/08/19
4091	P0035ADE	Absorbance Correction In Atomic Absorption Spectroscopy		Germany	Pending			P424030/1.4	1992/12/01
4091	P0035AJP	Method And Apparatus For Heating A Thermionic Detector Source		Germany	Granted	5-256122	1993/10/06	P423787/8	1992/11/04
4126	P0037AJP	Sampling Conditioning Method & Apparatus		Europe	Pending			81903308.3	1992/11/13
4133	P0038ADE	Optical Switching Apparatus With Retroreflector		Germany	Pending			19502431.1	1993/01/26
4133	P0038AJP	Optical Switching Device With Retroreflector		Japan	Granted	7,287,178		38693195	1993/01/26
4137	P0039ACA	Grouping Of Spectral Bands For Data Acquisition		Canada	Allowed			2,115,655	1994/02/17
4137	P0039AJP	Grouping Of Spectral Bands For Data Acquisition		Europe	Granted	0615116	2000/04/26	94103598.2	1994/03/09
4137	P0039AJP	Grouping Of Spectral Bands For Data Acquisition		Japan	Granted	6,500,828		387433/84	1994/03/09
4317	P0041ACA	Hybrid Valving System For Varying Field Flow Rate		Canada	Allowed			2,126,496	1994/06/22
4317	P0041AJP	Hybrid Valving System For Varying Field Flow Rate		Europe	Granted	0638958	2000/04/27	84109891.5	1994/06/22
4369	P0042AJP	Hybrid Valving System For Varying Field Flow Rate		Japan	Granted	7,078,032		177025/94	1994/07/28
4369	P0042AJP	Nebulizer		Europe	Published	0693320		95109756.9	1995/07/28
4382	P0044AJP	Optical Spectrometer For Detecting Spectra In Separate Ranges		Japan	Pending			180304/85	1995/07/17
4382	P0044AJP	Optical Spectrometer For Detecting Spectra In Separate Ranges		Australia	Granted	713,783	1986/05/24	524851/86	1986/05/24
4382	P0044AJP	Optical Spectrometer For Detecting Spectra In Separate Ranges		Europe	Pending	0744599		9610728/1	1986/05/08
4385	P0045AJP	Optical Spectrometer For Detecting Spectra In Separate Ranges		Japan	Pending			132143/96	1986/05/17
4385	P0045AJP	Apparatus And Method For Differential Analysis Using Signals		Europe	Pending	0763196		85821345.5	1986/05/17
4385	P0045AJP	Apparatus And Method For Differential Analysis Using Signals		Europe	Pending	0803061		85921344.8	1986/05/17
4385	P0045AJP	Apparatus And Method For Differential Analysis Using Signals		Japan	Pending			8500987	1986/11/29
4385	P0045AJP	Apparatus And Method For Differential Analysis Using Signals		Japan	Pending			8500986	1986/11/29
4392	P0046AJP	Spectrometer With Selectable Radiation From Light Source		Australia	Granted	710,048	2000/01/20	343191/95	1986/11/29
4392	P0046AJP	Spectrometer With Selectable Radiation From Light Source		Europe	Pending	0708324		95115662.9	1986/10/04
4411	P0047AJP	Spectrometer With Selectable Radiation From Light Source		Japan	Pending			271017/85	1986/10/19
4411	P0047ACA	Flow Regulation In Gas Chromatography		Australia	Allowed			45801/96	1986/10/19
4411	P0047AJP	Flow Regulation In Gas Chromatography		Canada	Pending			2,170,080	1986/10/22
4411	P0047AJP	Flow Regulation In Gas Chromatography		Europe	Pending	0730151		96103188.7	1986/10/31

4411	P0047AJP	Flow Regulation In Gas Chromatograph	Japan	Pending				4515106	1996/03/01
4427	P0048AEP	Solid State Inductively Coupled Plasma Generator	Europe	Pending	0051572			97721804.5	1997/12/12
4427	P0048AJP	Solid State Inductively Coupled Plasma Generator	Japan	Published				10000481	1999/01/05
4430	P0049AEP	Gas Chromatographic System With Controlled Sample Transfer	Europe	Pending	0770888			96117016.4	1996/10/23
4431	P0050AEP	Carbomer Having Rapid Cooling Of A Heating Vessel Therein	Japan	Granted	076483			281130/86	1996/10/23
4431	P0050AJP	Carbomer Having Rapid Cooling Of A Heating Vessel Therein	Japan	Granted	9.176.677			1997/06/11	1996/12/08
4432	P0051AEP	Thermal Insulating Container For Liquefied Gas	Europe	Published				961134/91.3	1996/08/22
4432	P0051AJP	Thermal Insulating Container For Liquefied Gas	Japan	Pending				226894/98	1996/10/08
4433	P0052AEP	Connecting Apparatus For Convergence Of Cryogenic Fluid	Europe	Pending	0776439			861193/65.1	1986/12/03
4433	P0052AJP	Connecting Apparatus For Convergence Of Cryogenic Fluid	Japan	Pending				328654/96	1996/12/03
4434	P0053AEP	Fluid Conveying Device With Removable Connection	Europe	Published	0782033			961134/90.5	1996/10/22
4434	P0053AJP	Fluid Conveying Device With Removable Connection	Japan	Published				226896/98	1996/10/08
4435	P0054AEP	Dry Gas Curtain For Cryogenic Surface	Europe	Pending	0762094			961108/86.2	1996/07/04
4435	P0054AJP	Dry Gas Curtain For Cryogenic Surface	Japan	Pending				234440/96	1996/10/04
4440	P0055AEP	Standardizing A Spectrometric Instrument	Japan	Pending				97122558.6	1997/12/19
4440	P0055AJP	Standardizing A Spectrometric Instrument	Japan	Pending				353550/97	1997/12/22
4443	P0056AEP	Apparatus For Controlling Level Of Cryogenic Liquid	Europe	Granted	6.049.762			08/993.482	1997/12/18
4443	P0056AJP	Apparatus For Controlling Level Of Cryogenic Liquid	Japan	Pending				961183/66.9	1996/12/03
4456	P0057AEP	Standardizing Between Analytical Instruments	Europe	Pending	0651219			328916/96	1996/12/09
4456	P0057AJP	Standardizing Between Analytical Instruments	Japan	Pending				9712255.1	1997/12/19
4457	P0058AEP	Standardizing Of Chromatographic Systems	Europe	Pending	0076712			353748/97	1997/12/22
4457	P0058AJP	Standardizing Of Chromatographic Systems	Japan	Granted	5.958.245			08/882.483	1997/12/18
4458	P0059AEP	Heater Control Circuit	Japan	Pending				1082/97	1997/01/04
4471	P0062AEP	Mounting Apparatus For Induction Coupled Plasma Torch	Europe	Granted	0910231			981191/30.7	1998/10/09
4471	P0062AJP	Mounting Apparatus For Induction Coupled Plasma Torch	Japan	Pending				287630/98	1998/10/15
4472	P0063AEP	Ion Detector, Detector Array And Instrument Using Same	Europe	Pending	0898784			979203/93	1998/10/30
4472	P0063AJP	Ion Detector, Detector Array And Instrument Using Same	Japan	Pending				8-63724.9	1998/10/12
4479	P0064AEP	Analyzing Spectrometric Data	Europe	Pending	0834725			97117174.9	1997/10/02
4479	P0064AJP	Analyzing Spectrometric Data	Japan	Pending				271050/97	1997/10/03
4479	P0094B	Analyzing Spectrometric Data	United States	Granted	5.078.115			08/940.676	1997/09/30
4484	P0065A	Self Aligning Optical Fiber Terminator	United States	Pending				09/285.262	1998/04/02
4483	P0066AAU	Tunable External Cavity Diode Laser	Australia	Pending				40466/97	1997/07/28
4493	P0066ACA	Tunable External Cavity Diode Laser	Canada	Pending				2.261.036	1997/07/28
4493	P0066AJP	Tunable External Cavity Diode Laser	Japan	Pending				105090/31	1998/01/26
4498	P0067AEP	Backscattering System For Gas Chromatography	Europe	Pending	0828717			971156/53.4	1997/09/08
4498	P0067AJP	Backscattering System For Gas Chromatography	Japan	Pending				250877/97	1997/09/16
4531	P0070AEP	Method And Apparatus To Compensate For Gas Chromatograph	Europe	Pending	0872732			981868/22.4	1998/04/15
4531	P0070AJP	Method And Apparatus To Compensate For Gas Chromatograph	Japan	Pending				105122/98	1998/04/15
4531	P0071A	Autosealer	United States	Pending				60/122.892	1998/03/05
4580	P0072A	Autosealer Having Grippers With Shape Memory Heat Actuator	United States	Pending				08/250.063	1998/02/12
4076	P0073AJP	Absorbance Correction In Atomic Absorption Spectroscopy	Japan	Granted	5.240.784			04-346.133	1997/12/02
3578	P0079AJP	Computer Control Cable Plug-Port Valve	Japan	Granted	1.361.134			871107/5.1	1987/07/24
4345	P0085AEP	Regulated Deuterium Arc System Supply	Europe	Granted	0254326			09/065.762	1998/04/23
4345	P0085AJP	Regulated Deuterium Arc System Supply	Japan	Granted				08/282.697	1998/06/01
4345	P0085A	Regulated Deuterium Arc System Supply	United States	Pending	6.548.387			901208/9.5	1998/10/31
4345	P0085A	Apparatus And Method For Differential Analysis Using Signals	United States	Granted	0428010			08/201.648	1998/01/02
4137	P0089A	Grouping Of Spectral Bands For Data Acquisition	United States	Granted	5.441.631			08/028.515	1998/03/08
2995	P0089AJP	Automatic Temperature Calibration Of Thermal Analyzers	Japan	Granted	5.412.458			22320/84	1990/02/26
3568	P0091A	Deposited Glass Etalons	United States	Pending					
4086	P0094AAGB	Photometric Instrument With Optical Fibers For Analyzing Ion Detector, Detector Array And Instrument Using Same	Great Britain	Granted	2.240.026			9412352.6	1994/06/20
4472	P0094AWO	Ion Detector, Detector Array And Instrument Using Same	PCT	Published				PCT/US97/08077	1997/04/11

4472	P0063A	Ion Detector, Detector Array And Instrument Using Same	United States	Pending			09/19/80, 167	1989/11/03
4493	P0063B	Tunable External Cavity Diode Laser	United States	Granted	0085171	1988/04/13	08/23/89, 499	1989/06/26
2714	P0093AEP	Solvent Delivery System	Europe	Granted	0085171	1988/04/13	02/11/77, 3	1989/12/17
2714	P0093AFR	Solvent Delivery System	France	Granted	0085171	1988/04/13	02/11/77, 3	1989/12/17
2714	P0093ADE	Solvent Delivery System	Germany	Granted	P.2737327.2	1988/04/13	02/11/77, 3	1989/12/17
2714	P0093ANL	Solvent Delivery System	Netherlands	Granted	0085171	1988/04/13	02/11/77, 3	1989/12/17
2714	P0093AT	Solvent Delivery System	Italy	Granted	0085171	1988/04/13	02/11/77, 3	1989/12/17
2714	P0093AJP	Solvent Delivery System	Japan	Granted	1.764.707	1989/06/12	11/02/83	1989/07/28
2714	P0093ASE	Solvent Delivery System	Sweden	Granted	0085171	1988/04/13	02/11/77, 3	1989/12/17
2714	P0093ACH	Solvent Delivery System	Switzerland	Granted	0085171	1988/04/13	02/11/77, 3	1989/12/17
2714	P0093AGB	Solvent Delivery System	Great Britain	Granted	0085171	1988/04/13	02/11/77, 3	1989/12/17
2714	P0093A	Solvent Delivery System	United States	Granted	4,556,367	1985/12/03	06/632, 759	1984/07/20
2765	P0096AFR	Spectrophotometer Gas Control System	France	Granted	069204	1987/09/16		
2766	P0097AGB	Fluid Flow Control Device	Great Britain	Granted	2,085,814	1984/09/30	0128983, 1	1988/10/07, 25
2851	!P0098ADE	Optical Beam Splitter	Germany	Granted	P.265483.6	1985/08/21	02/10/86, 8, 3	1987/07/28
2851	!P0098AJP	Optical Beam Splitter	Japan	Granted	1,792,016	1983/10/14	34/115/82	1982/03/02
2851	!P0098ACH	Optical Beam Splitter	Switzerland	Granted	0059836	1985/08/21	02/10/86, 8, 3	1987/07/28
2851	!P0098AGB	Optical Beam Splitter	Great Britain	Granted	0059836	1985/08/21	02/10/86, 8, 3	1987/07/28
2851	!P0098A	Optical Beam Splitter	United States	Granted	4,487,477	1984/12/11	06/476, 427	1988/02/16
2873	P0099ADE	Apparatus Useful With A Chromatography Column	Germany	Granted	P.2737382.0	1986/10/15	02/10/86, 8, 1	1989/07/17
2873	P0099ACH	Apparatus Useful With A Chromatography Column	Switzerland	Granted	0076669	1986/10/15	02/10/86, 509, 1	1989/07/19
2873	P0099AGB	Apparatus Useful With A Chromatography Column	Great Britain	Granted	0076669	1986/10/15	02/10/86, 509, 1	1989/07/19
2772	P0100ADE	Apparatus And Method Useful For Analyzing Refractory Substances	Germany	Granted	3203590	1983/05/13	3203560	1982/07/17
2772	P0100AJP	Apparatus Useful For Analyzing Refractory Substances	Japan	Granted	1,676,561	1982/06/26	22/182/82	1988/02/16
2760	P0101A	Apparatus Useful For Positioning A Light Filter	United States	Granted	4,400,354	1983/08/23	06/235, 781	1988/02/16
2876	P0102AEP	Control Circuit For Liquid Chromatograph	Europe	Granted	0085172	1987/11/11	08/289, 305	1988/06/30
2876	P0102AFR	Control Circuit For Liquid Chromatograph	France	Granted	0085172	1987/11/11	02/11/72, 0, 7	1988/12/17
2876	P0102ADE	Control Circuit For Liquid Chromatograph	Germany	Granted	P.277646.9	1987/11/11	02/11/72, 0, 7	1988/12/17
2876	P0102AJP	Control Circuit For Liquid Chromatograph	Italy	Granted	0085172	1987/11/11	02/11/72, 0, 7	1988/12/17
2876	P0102ASE	Control Circuit For Liquid Chromatograph	Sweden	Granted	1,755,762	1983/04/23	10887/81	1988/02/17
2876	P0102ACH	Control Circuit For Liquid Chromatograph	Switzerland	Granted	0085172	1987/11/11	02/11/72, 0, 7	1988/12/17
2876	P0102AGB	Control Circuit For Liquid Chromatograph	Great Britain	Granted	0085172	1987/11/11	02/11/72, 0, 7	1988/12/17
2876	P0102A	Control Circuit For Liquid Chromatograph	United States	Granted	4,450,574	1984/05/22	08/343, 605	1988/01/29
2949	P0103AFR	Spectrophotometer	France	Granted	0087588	1987/01/07	03/10/84, 9, 9	1988/01/29
2949	P0103ADE	Spectrophotometer	Germany	Granted	P.336894.9	1987/01/07	03/10/84, 9, 9	1988/01/29
2949	P0103ACH	Spectrophotometer	Great Britain	Granted	0087588	1987/01/07	03/10/84, 9, 9	1988/01/29
2949	P0103AGB	Spectrophotometer	United States	Granted	0087588	1987/01/07	03/10/84, 9, 9	1988/01/29
2949	P0103A	Spectrophotometer	United States	Granted	4,464,051	1984/08/07	06/234, 254	1988/02/02
2949	P0104AFR	Liquid Level Sensor	France	Granted	0129120	1984/08/17	04/106/278, 4	1984/05/30
2949	P0104ADE	Liquid Level Sensor	Germany	Granted	P.4473509.7	1984/08/17	04/106/278, 4	1984/05/30
2949	P0104ACH	Liquid Level Sensor	Switzerland	Granted	0129120	1984/08/17	04/106/278, 4	1984/05/30
2949	P0104AGB	Liquid Level Sensor	Great Britain	Granted	0129120	1984/08/17	04/106/278, 4	1984/05/30
2949	P0104A	Liquid Level Sensor	United States	Granted	4,532,798	1985/04/06	06/305, 232	1988/06/17
2949	P0105A	Control Circuit For Stepper Motor	United States	Granted	4,417,169	1983/11/22	08/344, 247	1988/01/28
3007	!P0106ADE	L.C. Sample Cell	Germany	Granted	3672537.0	1989/08/23	3572537	1989/10/02, 3
3007	!P0106AJP	L.C. Sample Cell	Japan	Granted	1,928,835	1985/05/12	18414/85	1986/02/04
3007	P0106ASE	Sample Cell Temperature Stabilizer	Sweden	Granted	1989/08/23	05/10/84, 7, 2	1989/11/30	1989/11/30
3007	P0106ACH	Sample Cell Temperature Stabilizer	Switzerland	Granted	0154782	1989/08/23	05/10/84, 7, 2	1989/11/30
3007	P0106AGB	L.C. Sample Cell	Great Britain	Granted	0154782	1989/08/23	05/10/84, 7, 2	1989/11/30
3007	!P0106A	Sample Cell Temperature Stabilizer	United States	Granted	4,599,765	1986/07/09	05/516, 545	1984/02/03
3048	P0109AAU	Fernose Positioning Mechanism	Australia	Granted	561,564	1986/07/14	18484/83	1988/08/04
3048	P0109AADE	Fernose Positioning Mechanism	Germany	Granted	P.3375894.5	1986/11/30	03/107/709, 4	1988/08/04
3048	P0109AAT	Thin Drum Soda Glass Coated To Protect From Contact	Italy	Granted	0101982	1988/11/30	03/107/709, 4	1988/08/04
3048	P0109AGB	The Use Of Thin Drum Soda Glass Appropriately Coated To	Great Britain	Granted	0101982	1988/11/30	03/107/709, 4	1988/08/04
3061	P0110AEP	SHIP CAIRN Assembly	Europe	Granted	0133226	1988/03/30	04/103/028, 6	1984/7/79

3061	P0110ABE	Sig. Circuit Assembly	Belgium	Granted	0,133,236	1988/02/29	64108022.6	1984/7/9
3061	P0110AFR	Sig. Circuit Assembly	France	Granted	0133726	1988/02/29	64108028.6	1984/7/9
3061	P0110ADE	Coupler Mechanism	Germany	Granted	3470199.0	1988/02/29	64108029.6	1984/7/9
3061	P0110ANL	Sig. Circuit Assembly	Netherlands	Granted	0133726	1988/02/29	64108028.6	1984/7/9
3061	P0110MT	Sig. Circuit Assembly	Italy	Granted	0133726	1988/02/29	64108028.6	1984/7/9
3061	P0110ACH	Sig. Circuit Assembly	Switzerland	Granted	0133726	1988/02/29	64108028.6	1984/7/9
3061	P0110A	Sig. Circuit Assembly	United States	Granted	4,560,059	1985/12/24	66/517,080	1983/07/25
3076	P0110AEP	Spectrophotometer	Europe	Granted	0135761	1991/08/05	64108506.0	1984/08/08
3076	P0110ABE	Spectrophotometer	Belgium	Granted	0,135,761	1991/08/05	64108506.0	1984/08/08
3076	P0110AFR	Spectrophotometer	France	Granted	0135761	1991/08/05	64108506.0	1984/08/08
3076	P0110ADE	Optical Design Of Fourier Transform Spectrophotometer	Germany	Granted	P3484666.0	1991/08/05	64108506.0	1984/08/08
3076	P0110ANL	Spectrophotometer	Netherlands	Granted	0135761	1991/08/05	64108506.0	1984/08/08
3076	P0110AT	Spectrophotometer	Italy	Granted	0135761	1991/08/05	64108506.0	1984/08/08
3076	P0110AJP	Optical Design Of Fourier Transform Spectrophotometer	Japan	Granted	1,800,723	1993/11/12	64108506.0	1984/08/08
3076	P0110AJP	Spectrophotometer	Switzerland	Granted	0135761	1991/08/05	64108506.0	1984/08/08
3076	P0110ACH	Spectrophotometer	Great Britain	Granted	0135761	1991/08/05	64108506.0	1984/08/08
3076	P0110AGB	Spectrophotometer	United States	Granted	4,740,082	1988/04/28	66/517,080	1983/07/25
3101	P0112A	Solvent Pressurizing System	United States	Granted	4,448,684	1984/05/15	66/461,789	1982/01/28
3109	P0113A	Liquid Chromatography Controller	United States	Granted	4,618,935	1986/10/21	66/568,765	1984/01/06
3111	P0114A	Pulse Damper	United States	Granted	4,548,713	1985/10/22	66/585,064	1984/02/02
3111	P0114ADE	RTV Pulse Damper	Germany	Granted	3565428.5	1988/10/05	3565429	1984/10/05
3111	P0114AJP	RTV Pulse Damper	Japan	Granted				
3111	P0114ASE	Pulse Damper	Sweden	Granted	0158132	1988/10/05	85101252.8	1985/02/06
3111	P0114ACH	Pulse Damper	Switzerland	Granted	0158132	1988/10/05	85101252.8	1985/02/06
3138	P0114AGB	Pulse Damper	Great Britain	Granted	0158132	1988/10/05	85101252.8	1985/02/06
3138	P0118ANL	Holder Assembly For Reaction Tubes	Australia	Allowed	706,789	1999/06/24	32891025	1995/08/27
3138	P0117ANL	KCP Band Plasma Detector	Australia	Allowed	706,789	1999/06/24	32891025	1995/08/27
3135	P0115AEP	Instantaneous Reading Multichannel Polychromatic Spectrophotometer	Europe	Granted	0182200	1996/03/13	62194796	1994/02/11
3135	P0115AFR	Instantaneous Reading Multichannel Polychromatic Spectrophotometer	France	Granted	0182200	1996/03/13	65101901.6	1986/02/14
3135	P0115AODE	A Novel Army Spectrometer	Germany	Granted	0182200	1996/03/13	65101901.6	1986/02/14
3135	P0115ANL	Instantaneous Reading Multichannel Polychromatic Spectrophotometer	Netherlands	Granted	0182200	1996/03/13	65101901.6	1986/02/14
3135	P0115AJP	A Novel Army Spectrometer	Japan	Granted	2,602,809	1997/01/29		
3135	P0115ACH	Instantaneous Reading Multichannel Polychromatic Spectrophotometer	Switzerland	Granted	0182200	1996/03/13	65101901.6	1986/02/14
3135	P0115AGB	Instantaneous Reading Multichannel Polychromatic Spectrophotometer	Great Britain	Granted	0182200	1996/03/13	65101901.6	1986/02/14
3135	P0115A	Instantaneous Reading Multichannel Polychromatic Spectrophotometer	United States	Granted	4,678,917	1997/07/07	68/705,260	1985/02/19
3138	P0116AJP	Holder Assembly For Reaction Tubes	Germany	Granted	3407065	1994/12/22	3407065	1994/02/27
3138	P0116A	Holder Assembly For Reaction Tubes	Japan	Granted	1,919,140	1995/04/07	3546804	1994/02/27
3138	P0116A	Holder Assembly For Reaction Tubes	United States	Granted	5,032,283	1991/07/16	66/882,017	1986/07/26
3142	P0117A	Apparatus For Monitoring A Plasma Torch	United States	Granted	4,640,827	1987/02/20	66/536,759	1993/08/25
3142	P0118AEP	An Apparatus And Method For Optimizing Separation Of An Unin	Europe	Granted	0175925	1992/09/20	85110513.0	1985/08/21
3142	P0118AFR	An Apparatus And Method For Optimizing Separation Of An Unin	France	Granted	0175925	1992/09/20	85110513.0	1985/08/21
3142	P0118ADE	An Apparatus And Method For Optimizing The Separation Of An	Germany	Granted	P3196705.1	1992/09/20	85110513.0	1985/08/21
3142	P0118ANL	An Apparatus And Method For Optimizing The Separation Of An	Netherlands	Granted	0175925	1992/09/20	85110513.0	1985/08/21
3142	P0118AJP	An Apparatus And Method For Optimizing The Separation Of An	Japan	Granted	2,075,811	1996/07/25		
3142	P0118ACH	An Apparatus And Method For Optimizing Separation Of An Unin	Switzerland	Granted	0175925	1992/09/20	85110513.0	1985/08/21
3142	P0118AGB	An Apparatus And Method For Optimizing Separation Of An Unin	Great Britain	Granted	0175925	1992/09/20	85110513.0	1985/08/21
3142	P0118A	Apparatus and Method for Optimizing Separation of a Sample	United States	Granted	4,579,653	1988/04/01	66/893,256	1984/08/24
3143	P0119A	Production Of Flexible Glass Capillary Tubing Without Extern	United States	Granted				
3162	P0120A	Light Detector Apparatus	United States	Granted	5,073,345	1991/12/17	66/753,370	1985/07/09
3173	P0121A	Sample Cell Temperature Stabilizer	United States	Granted	4,588,477	1988/05/20	66/676,660	1984/02/03
3173	P0121AEP	Compensator Plate Adjustment For Beam Splitter	Europe	Granted	0137206	1991/01/23	64109507.8	1984/08/08
3173	P0121ABE	Compensator Plate Adjustment For Beam Splitter	Belgium	Granted	0137206	1991/01/23	64109507.8	1984/08/08
3173	P0121AFR	Compensator Plate Adjustment For Beam Splitter	France	Granted	0137206	1991/01/23	64109507.8	1984/08/08
3173	P0121ADE	Compensator Plate Adjustment For Beam Splitter	Germany	Granted	P3463982.5	1991/01/23	64109507.8	1984/08/08
3173	P0121ANL	Compensator Plate Adjustment For Beam Splitter	Netherlands	Granted	0137206	1991/01/23	64109507.8	1984/08/08
3173	P0121AJP	Compensator Plate Adjustment For Beam Splitter	Italy	Granted	0137206	1991/01/23	64109507.8	1984/08/08

3173	P0123AJP	Compensator Plate Adjustment For Beam Splitter	Japan	Granted	2,131,945	1986/04/12	04109607.8	1984/07/09
3173	P0123AGB	Compensator Plate Adjustment For Beam Splitter	Switzerland	Granted	2,131,206	1987/10/123	04109607.8	1984/07/09
3173	P0123A	Assembly For Adjusting An Optical Element	Great Britain	Granted	0,737,206	1987/10/123	04109607.8	1984/07/09
3175	P0124ADE	Purge Shutter Mechanism	United States	Granted	4,735,595	1988/06/005	068527.085	1983/06/20
3176	P0124ANE	Purge Shutter Mechanism	Belgium	Granted	0,144,509	1989/06/009		
3176	P0124ANL	Purge Shutter Mechanism	Germany	Granted	247,831.3	1989/06/009		
3176	P0124ANT	Purge Shutter Mechanism	Netherlands	Granted	0,144,539	1989/06/008		
3176	P0124AJP	Purge Shutter Mechanism	Italy	Granted	0,144,539	1989/06/008		
3176	P0124ACH	Purge Shutter Mechanism	Japan	Granted	1,772,551	1989/06/008		
3176	P0124A	Purge Shutter Mechanism	Switzerland	Granted	1,772,551	1989/06/008		
3176	P0125AEP	Digital Control For Rapid Retit Of A Liquid Chromatograph	United States	Granted	4,603,635	1986/08/005	061648.952	1983/11/09
3176	P0125AFR	Digital Control For Rapid Retit Of A Liquid Chromatograph	Europe	Granted	0,194,450	1987/10/123	06101623	1988/02/07
3176	P0125ADE	Digital Control For Rapid Retit Of A Liquid Chromatograph P	France	Granted	0,194,450	1987/10/123		
3176	P0125ANL	Digital Control For Rapid Retit Of A Liquid Chromatograph	Germany	Granted	367,029.8	1987/10/123	367,029	1987/10/123
3176	P0125ANT	Digital Control For Rapid Retit Of A Liquid Chromatograph	Netherlands	Granted	0,194,450	1987/10/123		
3176	P0125AJP	Digital Control For Rapid Retit Of A Liquid Chromatograph	Italy	Granted	0,194,450	1987/10/123		
3176	P0125ASE	Digital Control For Rapid Retit Of A Liquid Chromatograph	Japan	Granted	1,979,685	1985/10/17		
3176	P0125AGH	Digital Control For Rapid Retit Of A Liquid Chromatograph P	Sweden	Granted	0,194,450	1987/10/123		
3176	P0125AGB	Digital Control For Rapid Retit Of A Liquid Chromatograph P	Switzerland	Granted	0,194,450	1987/10/123		
3176	P0125A	Digital Control For Rapid Retit Of A Liquid Chromatograph P	Great Britain	Granted	0,194,450	1987/10/123		
3196	P0126AEP	Interferometer Mirror Adjustment	United States	Granted	4,643,649	1987/02/17	067200.765	1983/02/11
3196	P0126AFR	Interferometer Mirror Adjustment	Europe	Granted	0,158,173	1989/11/02	05103202	1985/03/18
3196	P0126ADE	Interferometer Mirror Adjustment	France	Granted	2,574,039.0	1989/11/02	35740950	
3196	P0126ANL	Interferometer Mirror Adjustment	Germany	Granted	0,158,173	1989/11/02		1989/11/02
3196	P0126AJP	Interferometer Mirror Adjustment	Japan	Granted	1,976,664	1985/08/20		
3196	P0126A	Interferometer Mirror Adjustment	Great Britain	Granted	0,158,173	1989/11/02		
3196	P0126AGB	Interferometer Mirror Adjustment	United States	Granted	4,621,899	1986/11/11	061598.768	1984/07/09
3213	P0128AEP	Micro Argon Detector	France	Granted	0,184,032	1982/06/19	05305196.9	1985/07/22
3213	P0128AFR	Micro Argon Detector	Europe	Granted	0,184,032	1982/06/19	05305196.9	1985/07/22
3213	P0128ADE	Micro Argon Detector	Germany	Granted	2,566,528.6	1982/06/19	05305196.9	1985/07/22
3213	P0128ANL	Micro Argon Detector	Netherlands	Granted	0,184,032	1982/06/19	05305196.9	1985/07/22
3213	P0128AJP	Micro Argon Detector	Japan	Granted	1,899,498	1982/06/19	05305196.9	1985/07/22
3213	P0128A	Micro Argon Detector	Switzerland	Granted	0,184,032	1982/06/19	05305196.9	1985/07/22
3213	P0128AGB	Micro Argon Detector	Great Britain	Granted	0,184,032	1982/06/19	05305196.9	1985/07/22
3234	P0129A	Ionization Detectors For Gas Chromatography	United States	Granted	4,740,695	1988/04/26	06787.853	1985/07/22
3234	P0129AEP	Apparatus For Controlling A Plasma	United States	Granted	4,609,810	1988/07/02	068824.313	1984/06/26
3235	P0130AEP	Liquid Chromatographic Cartridge Column System	Europe	Granted	0,161,493	1982/05/20	05104441.2	1985/04/12
3235	P0130AFR	Liquid Chromatographic Cartridge Column System	France	Granted	0,161,493	1982/05/20	05104441.2	1985/04/12
3235	P0130ADE	Liquid Chromatographic Cartridge Column System	Germany	Granted	2,566,528.6	1982/05/20	05104441.2	1985/04/12
3235	P0130ANL	Liquid Chromatographic Cartridge Column System	Netherlands	Granted	0,161,493	1982/05/20	05104441.2	1985/04/12
3235	P0130AJP	Liquid Chromatographic Cartridge Column System	Japan	Granted	2,574,045	1989/07/27	1599594	1985/05/07
3235	P0130A	Liquid Chromatographic Cartridge Column System	Switzerland	Granted	0,161,493	1982/05/20	05104441.2	1985/04/12
3235	P0130AGB	Liquid Chromatographic Cartridge Column System	Great Britain	Granted	0,161,493	1982/05/20	05104441.2	1985/04/12
3235	P0130ACH	Liquid Chromatographic Cartridge Column System	United States	Granted	4,587,014	1986/05/06	068807.878	1984/05/07
3235	P0130AEP	Liquid Chromatographic Cartridge Column System	Europe	Granted	0,282,043	1989/10/20		
3236	P0131AEP	Polychromator For Multi-Element Analysis	United States	Granted	4,786,257	1989/10/102	05101657	1985/02/11
3236	P0131AFR	Polychromator For Multi-Element Analysis	France	Granted	0,1354,996	1991/10/102		1987/03/10
3236	P0131ADE	Dual Servo Impedance Matching System For Top Spectroscopy	Germany	Granted	3,554,091.4	1991/10/102	3580891	1991/10/102
3236	P0131ANL	Dual Servo Impedance Matching System For Top Spectroscopy	Italy	Granted	0,1354,996	1991/10/102		1991/10/102
3236	P0131AJP	Dual Servo Impedance Matching System For Top Spectroscopy	Japan	Granted	2,111,788	1986/03/22	61090903	1985/02/28
3236	P0131A	Dual Servo Impedance Matching System For Top Spectroscopy	Great Britain	Granted	0,1354,996	1991/10/102	077722.393	1991/06/19
3236	P0245AEP	Plasma Emission Source	United States	Granted	4,629,940	1986/12/16	061585.807	1984/07/02
4314	P0245AFR	Correction Of Spectra For S-ray Radiation	Europe	Granted	0659751	1989/08/005		
4314	P0245A	Correction Of Spectra For S-ray Radiation	France	Granted	0659751	1990/08/005		



4314	P0245AD	Connection Of Spectra For Spray Radiation	Germany	Granted	68412221.1	1889/04/05			
3289	P0132AEP	Multiple Streams Sampling System	Europe	Granted	0154188	1891/08/25			
4314	P0245AJP	Connection Of Spectra For Spray Radiation	Japan	Pending					
3289	P0132AD	Multiple Streams Sampling System	Germany	Granted	43584175.3	1891/09/25			
3289	P0245AGB	Multiple Streams Sampling System	Sweden	Granted	0154188	1891/08/25			
4314	P0132ACH	Connection Of Spectra For Spray Radiation	Great Britain	Granted	0658751	1888/03/05			
3289	P0245A	Multiple Streams Sampling System	Switzerland	Granted	0164188	1891/09/25			
3289	P0132A	Connection Of Spectra For Spray Radiation	United States	Granted	5,428,558	1985/06/27			
3287	P0132A	Apparatus For Periodically Monitoring Composition Of Samples	United States	Granted	4,570,639	1887/07/07			
3282	P0135A	Synchronous Wavelength Drive And Data Acquisition Conversion	United States	Granted	4,560,877	1987/04/28			
3296	P0137A	Safety Apparatus For an Atomic Absorption Spectroscopy Burner	United States	Granted	4,568,267	1986/02/04			
3307	P0139AEP	Self-Spraying Lampholder	United States	Granted	4,597,034	1986/08/24			
3307	P0139AEP	Self-Spraying Lampholder	Europe	Granted	0164283	1991/12/04			
3307	P0139AEP	Self-Spraying Lampholder	France	Granted	0164283	1991/12/04			
3307	P0139ADE	Programmed Temperature Control Of A Thermal System	Germany	Granted	P3584824.3	1991/12/04			
3307	P0139ADE	Programmed Temperature Control Of A Thermal System	Netherlands	Granted	0164283	1991/12/04			
3307	P0139AEP	Programmed Temperature Control Of A Thermal System	Switzerland	Granted	2,033,583	1986/03/19			
3307	P0139AEP	Programmed Temperature Control Of A Thermal System	Japan	Granted	0164283	1891/12/04			
3307	P0139AEP	Programmed Temperature Control Of A Thermal System	Great Britain	Granted	0164283	1991/12/04			
3307	P0139AEP	Programmed Temperature Control Of A Thermal System	United States	Granted	4,752,218	1988/06/21			
3309	P0139A	Programmed Temperature Control Of A Thermal System	United States	Granted	4,637,441	1988/08/06			
3309	P0139A	Programmed Temperature Control Of A Thermal System	United States	Granted	2,163,897	1990/07/11			
3312	P0140ADE	Ionization Detectors For Gas Chromatography	Great Britain	Granted	3605488	1988/05/24			
3312	P0140AJP	Linearized Ultra-Low Noise Mic Preamp	Germany	Granted	2,068,543	1988/07/10			
3312	P0140AGB	Detector Pre-amplifier	Japan	Granted	2,171,512	1988/01/25			
3312	P0140A	Detector Pre-amplifier For Use with a MIC Detector	Great Britain	Granted	4,582,022	1988/07/21			
3313	P0141A	Fluid Flow Control System	United States	Granted	4,617,953	1988/10/21			
2445	P0256ADE	Optical Beam Switching Apparatus	United States	Granted	P2828145	1987/09/10			
2445	P0256AIT	Optical Beam Switching Apparatus	Germany	Granted	1118127	1988/02/03			
2445	P0256AGB	Optical Beam Switching Apparatus	Italy	Granted	1899348	1978/05/20			
3321	P0143A	System For Changing Orders In a Spectrophotometer	Great Britain	Granted	4,571,172	1986/02/18			
2515	P0257AJP	Spectroscopic Phase Synchronization Apparatus	United States	Granted	4,571,172	1986/02/18			
2515	P0257AGB	Spectroscopic Phase Synchronization Apparatus	Japan	Granted	1,711,151	1992/11/11			
2515	P0257A	Spectroscopic Phase Synchronization Apparatus	Great Britain	Granted	2,082,298	1984/04/22			
2646	P0258AJP	Method And Apparatus For Determining The Nature Of An Unknown	United States	Granted	4,386,852	1984/08/07			
2646	P0258AGB	Method And Apparatus For Determining The Nature Of An Unknown	Japan	Granted	1,670,082	1992/08/12			
2780	P0101AAU	Apparatus Useful For Positioning A Light Fiber	Great Britain	Granted	2,070,235	1984/02/01			
3331	P0144AEP	Solvent Pressurizing & Degassing System	Australia	Granted	354,417	1885/12/12			
3331	P0260AEP	Solvent Pressurizing & Degassing System	France	Granted	0178349	1988/05/24			
3331	P0144ADE	Solvent Pressurizing & Degassing System	Europe	Pending					
3331	P0144AJP	Solvent Pressurizing & Degassing System	Germany	Granted	3570527.2	1988/05/24			
3331	P0144ANL	Solvent Pressurizing & Degassing System	Netherlands	Granted	0178349	1988/05/24			
3331	P0144ACH	Solvent Pressurizing & Degassing System	Switzerland	Granted	0178349	1988/05/24			
3331	P0144AGB	Solvent Pressurizing & Degassing System	Great Britain	Granted	0178349	1988/05/24			
3331	P0144A	Solvent Pressurizing & Degassing System	United States	Granted	4,541,452	1988/09/17			
3331	P0260AJP	Solvent Pressurizing & Degassing System	Japan	Granted	P7778818.9	1988/09/17			
6037E	P0260AJP	Solvent Pressurizing & Degassing System	Japan	Pending	3,053,832	2000/01/07			
3365	P0145AEP	Ionization Detectors For Gas Chromatography	Europe	Granted	0248714	1992/06/17			
3365	P0145AEP	Ionization Detectors For Gas Chromatography	France	Granted	0248714	1992/06/17			
3365	P0145ADE	Ionization Detectors For Gas Chromatography	Germany	Granted	P7778818.9	1992/06/17			
3365	P0145ANL	Ionization Detectors For Gas Chromatography	Netherlands	Granted	0248714	1992/06/17			
3365	P0280ACA	Electro-Optical Ion Detector For A Scanning Mass Spectrometer	Canada	Advised	2,007,782	2000/01/04			
3365	P0145AIT	Ionization Detectors For Gas Chromatography	Italy	Granted	0248714	1992/06/17			
3365	P0145AJP	Ionization Detectors For Gas Chromatography	Japan	Granted	2,574,289	1992/06/17			
3365	P0145ASE	Ionization Detectors For Gas Chromatography	Sweden	Granted	0248714	1992/06/17			
3365	P0145AGB	Ionization Detectors For Gas Chromatography	Great Britain	Granted	0248714	1992/06/17			
3365	P0145A	Ionization Detectors For Gas Chromatography	United States	Granted	4,873,062	1989/10/17			
4369	P0042AAU	Mebulizer	Australia	Granted	707,363	1999/07/08			

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3389	P0146AEP	Automatic Optimization Procedure	Europe	Granted	0192201	1992/07/23	6344480	1996/02/20
3368	P0146AAU	Automatic Optimization Procedure	Australia	Granted	696,963	1988/01/27	500,641	1995/01/31
3368	P0146ACA	Automatic Optimization Procedure	Canada	Granted	1,271,342	1990/07/18	500,641	1995/01/31
3368	P0146ADE	Automatic Optimization Procedure	Germany	Granted	3906175.8	1992/07/28		
3368	P0146ANL	Automatic Optimization Procedure	Netherlands	Granted	0192201	1992/07/28		
3369	P0146ANT	Automatic Optimization Procedure	Italy	Granted	0192201	1992/07/28		
3369	P0146AJP	Automatic Optimization Procedure	Japan	Granted	1,911,192	1995/03/09	35408/88	1995/02/21
3369	P0146ACH	Automatic Optimization Procedure	Switzerland	Granted	0192201	1992/07/28		
3318	P0146AAU	Optimization Apparatus and Procedure	United States	Granted	4,693,764	1997/08/25	06/704,356	1995/02/21
3318	P0198AJP	Atomic Absorption Spectrometer	Australia	Granted	502,281	1999/03/16	60856/86	1998/08/07
3318	P0198A	Atomic Absorption Spectrometer	Japan	Granted	2,118,078	1996/12/20		
3322	P0200AJP	Gas Control Device For Controlling The Fuel Gas	United States	Granted	4,991,960	1993/10/21	06/893,706	1996/08/06
3372	P0147A	Burner Assembly For Atomic Absorption Spectrometer	Japan	Granted	2,016,021	1999/02/19	191787/86	1995/08/18
3372	P0200AJP	Atomic Absorption Spectrometer	United States	Granted	4,889,324	1997/06/10	06/853,283	1996/04/17
3377	P0203AA	Electro-Optical Ion Detector For A Scanning Mass Spectrometer	United States	Granted	4,716,654	1998/10/11	06/932,957	1996/11/18
4041	P0175A	Electro-Optical Ion Detector For A Scanning Mass Spectrometer	Japan	Granted	5,053,621	1991/10/01	07/616,123	1990/11/18
3208	P0262A	Electro-Optical Ion Detector For A Scanning Mass Spectrometer	United States	Granted	4,917,493	1990/04/17	07/2205,688	1993/07/13
3228	P0018A	Synchronization Of Digital Signals With Alternating Current	United States	Granted	4,861,207	1990/10/02	07/289,150	1993/08/02
4014	P0023A	Purifier Having Mechanism For Use In Chromatography	United States	Granted	5,360,598	1996/11/01	07/504,828	1995/04/05
4070	P0031A	Single Element Thermal Conductivity Detector	United States	Granted	5,265,459	1992/03/24	07/748,548	1991/06/14
4037	P0025A	Circuit For Heating And Sensing With A Single Element	United States	Granted	5,092,196	1992/03/24	07/637,332	1991/06/14
2895	P0281AAU	Optical Coupling Device	Australia	Granted	543,372	1995/02/21	76972/81	1991/10/20
2895	P0281AAU	Optical Coupling Device	Germany	Granted	3176932.7	1997/09/25	3175932	1997/02/25
2895	P0281ACH	Optical Coupling Device	Switzerland	Granted	0031192	1997/02/25		
4045	P0027A	Standardizing And Calibrating A Spectrometric Instrument	United States	Granted	5,303,185	1994/04/12	07/824,448	1992/02/12
4317	P0041A	Hybrid Valving System For Varying Fluid Flow Rate	United States	Granted	5,329,985	1994/07/18	08/100,698	1993/07/26
4382	P0044A	Optical Spectrometer For Detecting Spectra In Sepamie Range	United States	Granted	5,565,803	1996/10/15	08/451,351	1995/05/28
4389	P0042A	Reactor	United States	Granted	5,464,157	1995/11/07	08/276,144	1994/07/18
3984	P0043B	Spark Sampling Microparticle Generator And Method	United States	Granted	5,452,069	1995/09/18	08/137,854	1993/10/15
4015	P0021A	3 Point Bending Measuring System	United States	Granted	4,976,162	1990/12/11	07/435,114	1989/11/13
3382	P0024C	Vial Locator And Sensor	United States	Granted	5,171,530	1992/12/15	07/803,688	1991/12/03
3382	P0064AEP	Integral Separation Capillary/Conductivity Detector	Europe	Granted	0241940	1993/01/27	87105712.1	1997/04/06
3382	P0064AFR	Integral Separation Capillary/Conductivity Detector	France	Granted	0241940	1993/01/27	87105712.1	1997/04/06
3382	P0064ADE	Integral Separation Capillary/Conductivity Detector	Germany	Granted	P3783788.2	1993/01/27	87105712.1	1997/04/16
3382	P0064ANL	Integral Separation Capillary/Conductivity Detector	Netherlands	Granted	0241940	1993/01/27	87105712.1	1997/04/16
3382	P0064AJT	Integral Separation Capillary/Conductivity Detector	Italy	Granted	0241940	1993/01/27	87105712.1	1997/04/16
3382	P0064AJP	Integral Separation Capillary/Conductivity Detector	Japan	Granted	2,735,546	1998/01/09		
3382	P0064ASE	Integral Separation Capillary/Conductivity Detector	Switzerland	Granted	0241940	1993/01/27	87105712.1	1997/04/18
3382	P0064AGB	Integral Separation Capillary/Conductivity Detector	Great Britain	Granted	0241940	1993/01/27	87105712.1	1997/04/16
3401	P0264A	Method of Fabricating Capillary Electro Separation Channels	United States	Granted	4,816,123	1998/03/28	07/801,808	1997/07/06
3433	P0267A	Power Circuit For Spectral Analysis Gaseous Discharge Lamp	United States	Granted	4,692,805	1997/07/28	06/830,163	1996/02/18
3435	P0268A	Flame Atomic Absorption Spectrophotometer	United States	Granted	4,726,879	1998/02/23	06/836,145	1996/03/01
3436	P0269A	Frictionless Translational Bearing	United States	Granted	4,694,611	1997/08/04	06/855,995	1996/04/25
3480	P0270A	System For Calibrating a Monochromator	United States	Granted	4,778,216	1998/10/16	06/837,434	1996/03/07
3480	P0271A	High Pressure Column Assembly For A Liquid Chromatograph	United States	Granted	4,816,005	1998/10/24	07/81,314	1998/12/08
3480	P0271AEP	High Pressure Column Assembly For A Liquid Chromatograph	Europe	Granted	0282145	1995/09/20	89102260.1	1995/02/10
3480	P0271ADE	High Pressure Column Assembly For A Liquid Chromatograph	Germany	Granted	199924284.0	1995/09/20	89102260.1	1995/02/10
3480	P0271ACB	High Pressure Column Assembly For A Liquid Chromatograph	Great Britain	Granted	0282145	1995/09/20	89102260.1	1995/02/10
3514	P0272A	Programmable Lamp Plug	United States	Granted	4,670,813	1997/05/02	06/460,924	1995/11/28
	P0273A	Phase Angle Measurement	United States					
	P0273AEP	Phase Angle Measurement	Europe					
	P0273AFR	Phase Angle Measurement	France					
	P0273ADE	Phase Angle Measurement	Germany					
	P0273AJT	Phase Angle Measurement	Italy					

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2515	P0273AJP	Phase Angle Measurement	Japan	Granted	0101882	1988/11/30	83107709	1989/08/04
2516	P0273AGB	Phase Angle Measurement	Switzerland	Granted	4,742,276	1988/05/03	061889,556	1988/07/25
2517	P0273ADE	Phase Synchronization	Germany	Granted	4,984,676	1987/02/19	071641,798	1987/06/25
2518	P0109AEP	Chromatography Column	United States	Granted	141,585			
2519	P0280AKR	Electro-Optical Ion Detector For A Scanning Mass Spectrometer	United States	Granted	3307697	1986/04/29	3307697	1988/03/03
2520	P0065AJP	Variable Gain Amplifier	Japan	Granted	1,589,243	1988/07/10	51428/62	1989/03/21
2521	P0261AEP	Optical Coupling Device	Europe	Granted	0051162	1987/02/25	81107860	1987/10/02
2522	P0278AEP	Fluorescence System With Synchronous Clock For Generation Of Ti	Europe	Granted	0058136	1987/09/09	81110555	1987/12/17
2523	P0089AEP	Optical Beam Splitter	Europe	Granted	0059896	1985/08/21	82100648,3	1988/01/28
2524	P0089AEP	Apparatus Used With A Chromatography Column	Europe	Granted	0075689	1986/10/15	82106509	1987/07/19
2525	P0103AEP	Liquid Level Sensor	Europe	Granted	0027504	1987/01/07	83100499,9	1988/01/20
2526	P0104AEP	Sample Cell Temperature Stabilizer	Europe	Granted	0123120	1988/04/17	84106522,4	1988/05/30
2527	P0106AEP	Pulse Damper	Europe	Granted	0154792	1989/04/23	85100947,2	1988/07/30
2528	P0144AEP	Multi-port Valve In Gas Collection System And Method	Europe	Granted	0156132	1988/10/05	85101252,6	1988/02/08
2529	P0278AEP	Photometric Instrument With Optical Fibers For Analyzing	United States	Granted	0178249	1992/09/20	85112742	1988/10/08
2530	P0030A	Hybrid wavy system for varying fluid flow rate	United States	Granted	5,428,686	1992/06/27	081002,162	1988/07/15
2531	P0011AAU	Thermal Insulating Container For Liquefied Gas	Australia	Granted	682,773	1991/05/01	08178504	1994/07/28
2532	P0051B	Connecting Apparatus For Convergence Of Gaseous Fluid	United States	Granted	5,655,681	1997/04/12	081724,432	1996/10/31
2533	P0052A	Rigid Conveying Device With Removable Connection	United States	Granted	5,762,361	1998/06/08	081689,535	1998/12/08
2534	P0053A	Mounting Apparatus For Induction Coupled Plasma Torch	United States	Granted	5,716,082	1998/02/10	081525,975	1995/09/07
2535	P0062A	Analysis Of Organic Material	Germany	Granted	5,926,266	1998/07/20	081950,775	1997/10/15
2536	P0281AEP	Thermal Conductivity Detector	Europe	Granted	4135021			
2537	P0281AEP	Inductively Coupled Plasma Torch With Sample Inlet	Europe	Granted	0281966	1995/07/26	P4135021,9	1997/10/15
2538	P0286AEP	Power System For Inductively Coupled Plasma Torch	Europe	Granted	0281157	1994/01/12	88103409,4	1988/03/24
2539	P0287AEP	Chromatography Column	Germany	Granted	0281922	1993/03/10	88103403,7	1988/03/04
2540	P0290AEP	Standardization Of Spectral Lines	France	Granted	726944	1992/10/17	88105148,3	1988/04/11
2541	P0292AEP	Computer Operated Spectrometric Instrument	Germany	Granted	38540755	1972/03/08	7126944	1971/07/13
2542	P0296AEP	Low Frequency Signal Processing Circuitry	Europe	Published		1996/04/22	39540755,9	1995/10/08
2543	P0300AEP	Monochromator Drift Compensation	Europe	Granted	0334303	1994/07/20	89108264,5	1998/04/27
2544	P0301AEP	Standardization Of Spectral Lines	Europe	Granted	0344783	1994/03/02	89109948,3	1989/03/21
2545	P0302AEP	Method And Apparatus For Comparing Spectra	Europe	Granted	0344782	1993/10/27	89109947,5	1989/06/01
2546	P0303AEP	Apparatus For Differential Analysis Of Sample Dielectric Pro	Europe	Granted	0558972	1993/09/08	83102164,7	1993/02/11
2547	P0304AEP	Monitoring Components Of An Animal Organ Using Statistical	United States	Pending			09205,248	1989/08/28
2548	P0074B	Method Of Manufacturing Glass Beads	United States	Granted	5,286,821		081288,242	1989/08/28
2549	P0067B	Bandpassing System For Gas Chromatography	Japan	Granted	5,973,357	1993/08/03	081851,769	1992/11/18
2550	P0313AJP		Japan	Pending			01-508578	1989/07/27
2551	P0313AJP		Japan	Pending			01-508455	1989/07/27
2552	P0319AJP	Multi-port Valve In Gas Collection System And Method	Germany	Pending			05-263036	1993/09/28
2553	P0278ADE	Chromatography Column	Germany	Granted	P2386715,9	1992/09/20	85114718,1	1988/11/18
2554	P0301ADE	Standardization Of Spectral Lines	Germany	Granted	P2478970,1	1993/03/10	88105148,3	1988/04/11
2555	P0302ADE		Germany	Granted	P88910188,0	1993/10/27	89109947,5	1988/06/01
2556	P0272ADE		Germany	Granted	3176277			1988/09/03
2557	P0272ADE		Germany	Granted	3862749			1997/12/04

3630	P0285ADE	Inductively Coupled Plasma Torch With Sample Injector	Germany	Granted	P3088962.4	1994/0/12	66103413.6	1998/03/04
3703	P0285ADE	Thermal Conductivity Detector	Germany	Granted	P3087541.1	1994/0/02	66103409.4	1998/03/04
3809	P0300ADE	Microchromator Drift Compensation	Germany	Granted	P6813258.6	1994/0/302	96109946.3	1998/06/01
3837	P0287ADE	Power System For Inductively Coupled Plasma Torch	Germany	Granted	P31850422.7	1994/06/28	66103403.7	1998/03/04
3527	P0287ADE	Low Frequency Signal Processing Circuitry	Germany	Granted	P6818624.1	1994/0/720	69105094.3	1998/03/21
3536	P0287ADE	Detector Cell For Spectrophotometer Used In Liquid Chromatography	Germany	Granted	P68823388	1995/07/12	69105263.1	1998/03/23
4088	P0307ADE	Method And Apparatus For Comparing Spectra	Germany	Granted	P69210536.4	1997/0/326	92116913.2	1992/10/02
4073	P0308ADE	Apparatus For Differential Analysis Of Sample Spectra	Germany	Granted	P69320217	1998/09/17	69320217	1993/02/11
3628	P0284ADE	Zero-Dilution Split Injector Used For Gas Chromatography	United States	Granted	P3854208.9	1995/07/26	69154208	1998/02/28
4637	P0327A	Monitoring Constituents Of An Animal Organ Using Statistical	United States	Pending			69154208	1998/08/16
4606	P0328A	Hybrid Film Type Sensor	United States	Pending			69443875	1998/11/19
4607	P0328A	Endosure For Analytical Instrumentation	United States	Granted	D412 891	1999/08/17	281054 998	1997/03/16
4501	P0330A	Detection Of Low Level Analytes In Samples Using Agglutinated	United States	Granted	6 942 442	1999/08/24	08031 205	1997/04/02
3809	P0300AAU	Microchromator Drift Compensation	United States	Granted	612 847	1991/07/18	3587468	1989/06/01
3809	P0300AAU	Microchromator Drift Compensation	United States	Granted	4 916 645	1990/04/10	07201 250	1988/06/02
3828	P0018AGB	Circuit For Synchronizing Digital Signals With Alternating C	Canada	Granted	1 321 485	1993/08/24	801 458	1989/06/01
3828	P0018AGB	Circuit For Synchronizing Digital Signals With Alternating Cur	Germany	Granted	4 024 459	1991/02/02	P4024459.8	1990/08/01
4015	P0024ADE	Vial Locator And Sensor	Great Britain	Granted	2 235 837	1997/06/18	90165903.6	1990/07/27
4015	P0024ADE	Vial Locator And Sensor	Germany	Granted	P69109706.9	1995/05/17	91102281.2	1994/02/18
4015	P0024AAU	Vial Locator And Sensor	Australia	Granted	640 453	1993/06/26	71933101	1991/02/27
4010	P0031AEP	Single Element Thermal Conductivity Detector	Europe	Granted	0528295	1998/09/12	921132376.8	1992/07/20
4010	P0031ADE	Apparatus For Differential Analysis Of Sample Dielectric Pro	Germany	Granted	69228633.2	1998/08/02	82112375.8	1992/07/20
2730	P0278AGB	3 Point Bending Measuring System	United States	Granted	5 309 110	1994/06/03	07046 994	1992/03/04
3536	P0028AGB	Detector Cell For Liquid Chromatography	Great Britain	Granted	0185826	1992/09/30	8514718.1	1995/11/19
3994	P0024AGB	Vial Locator And Sensor	Great Britain	Granted	0735288	1995/07/12	89102893.1	1995/03/23
4015	P0027AGB	Standardizing And Calibrating A Spectrometric Instrument	Great Britain	Granted	0444498	1995/05/17	91102281.2	1994/02/18
4045	P0027AGB	Standardizing And Calibrating A Spectrometric Instrument	Great Britain	Granted	0560006	1997/12/10	93100108.9	1993/01/07
4046	P0029AGB	Photometer Amplifier Linearity	Great Britain	Granted	0552604	1997/04/09	93100102.8	1993/01/07
4073	P0308AGB	Apparatus For Differential Analysis Of Sample Dielectric Pro	Great Britain	Granted	2 251 659	1995/06/28	9223099.5	1993/02/11
4091	P0018AGB	Absorbance Correction In Atomic Absorption Spectroscopy	Great Britain	Granted	0558972	1995/06/12	93102168.7	1993/02/11
2956	P0026AGB	Method For Heating A Thermocouple Detector Source	Great Britain	Granted	2 262 160	1995/12/06	9223398.5	1992/11/11
4056	P0031AGB	Double Beam Detector System For Liquid Chromatography	Great Britain	Granted	2 116 754	1996/01/28	18303666.5	1993/02/10
4086	P0033ADE	Photometric Instrument With Optical Fibers For Analyzing	Great Britain	Granted	0528541	1996/04/17	92114331.9	1992/06/21
	P0333A	Method For Processing A Sample	Germany	Pending	P4424961.6	1994/07/14	1994/07/14	1998/10/20
	P0333AHL	Method For Processing A Sample	The Netherlands	Granted	08101.819		1002110	1996/01/17
	P0333AWD	Method For Processing A Sample	PCT	Pending			1002110	1996/01/17
4462	P0326ACA	Detection Of Low Level Hydrophobic Analytes In Samples	Canada	Published	2 285 282		PCT/ML87/00005	1998/10/20
4462	P0326AEP	Detection Of Low Level Hydrophobic Analytes In Samples	Canada	Published	99814440.7			1998/10/20
4462	P0326AEP	Detection Of Low Level Hydrophobic Analytes In Samples	Japan	Pending	10-542004			1998/10/04
4462	P0326AAU	Detection Of Low Level Hydrophobic Analytes In Samples	Australia	Published	68796938			1998/10/02
4501	P0310ACA	Detection Of Low Level Analytes In Samples Using Agglutinat	Canada	Pending	2 285 219			1998/10/02
4501	P0310AEP	Detection Of Low Level Analytes In Samples Using Agglutinat	Europe	Published	99814435.7			1998/10/04
4501	P0310AAU	Detection Of Low Level Analytes In Samples Using Agglutinat	Australia	Pending	68793938			1998/10/02
4501	P0330AEP	Method For Processing A Sample	Japan	Pending	10-541999			1998/10/04
4462	P0326A	Detection Of Low Level Hydrophobic Analytes In Samples	United States	Pending	5 691 740	1999/04/06	06832 166	1997/04/02
3729	P0024BGB	Detector For A Spectrometer	United States	Granted	4 820 048	1993/04/11	071233025	1997/11/19
4086	P0286A	Photometric Instrument With Optical Fibers For Analyzing	Great Britain	Granted	2 312 044	1994/01/21	8714760.5	1997/07/14
4569	P0337A	Method and Apparatus for Iterative Spectral Compensation	United States	Advanced			081300 609	1999/04/27
5002	P0338A	Method And Apparatus For Impurity Detection	United States	Pending			081503 092	2000/07/11

4088	P0307AJP	Method And Apparatus For Comparing Spectra	Japan	Granted	5-209826	1993/08/20	4-287034	1992/10/02
4501	P0330B	Detection Of Low Level Analytes In Samples Using Amplified Spectroscopic Determination Of The Dissociation Constants	United States	Pending			08/268513	1989/03/12
4648	P0331A	Non-Inimmunity Determination Of Protein-Ligand Interaction	United States	To File				
3808	P0282AU	Electrochromic Adsorption Furnace For Spectroscopy	Australia	Granted	598,940	1986/07/05	1817598	1986/08/20
4010	P0341A	Optical Switching Device	United States	Granted	5,035,886	1991/10/15	07/603,592	1990/01/25
4063	P0282A	Method Of Manufacturing Glass Beads	United States	Granted	5,199,009	1993/03/30	07/786,497	1991/11/22
4086	P0304B	Photometric Instrument With Optical Fibers For Analyzing Phase Angle Measurement	United States	Granted	5,526,451	1996/06/11	08/324,650	1994/10/18
3527	P0287A	Phase Angle Measurement	United States	Granted	4,805,603	1991/07/15	07/173,201	1990/02/24
3527	P0287A	Phase Angle Measurement	France	Granted	0234303	1994/02/20	88105064.3	1990/03/21
3527	P0287AJP	Phase Angle Measurement	Japan	Granted	1,316,831	1989/03/21	69105064.3	1989/03/21
3527	P0287ACH	Phase Angle Measurement	Switzerland	Granted	0234303	1994/07/20	88105064.3	1990/03/21
3527	P0287AGB	Phase Angle Measurement	Great Britain	Granted	0234303	1994/07/20	88105064.3	1990/03/21
3602	P00169	Line Frequency Staved Voltage-To-Frequency Converter System	United States	Granted	4,888,573	1990/09/19	07/119,284	1987/11/12
3602	P0016AEP	Line Frequency Staved Voltage-To-Frequency Converter System	Europe	Granted	0266682	1993/07/14	87115917.4	1991/10/28
3602	P0016AFR	Line Frequency Staved Voltage-To-Frequency Converter System	France	Granted	0266682	1993/07/14	87115917.4	1991/10/28
3602	P0016ADE	Line Frequency Staved Voltage-To-Frequency Converter System	Germany	Granted	P21965322.8	1993/07/14	87115917.4	1991/10/28
3602	P0016ACH	Line Frequency Staved Voltage-To-Frequency Converter System	Netherlands	Granted	0266682	1993/07/14	87115917.4	1991/10/28
3628	P0016ACB	Line Frequency Staved Voltage-To-Frequency Converter System	Switzerland	Granted	0266682	1993/07/14	87115917.4	1991/10/28
3628	P0284A	Analysis Of Organic Material	Great Britain	Granted	0266682	1993/07/14	87115917.4	1991/10/28
3628	P0284B	Analysis Of Organic Material	United States	Granted	4,795,614	1989/01/05	07/019,505	1987/02/27
3628	P0284C	Analysis Of Organic Material	United States	Granted	5,044,860	1991/09/03	07/176,713	1989/04/07
3628	P0284D	Analysis Of Organic Material	United States	Granted	5,013,628	1991/05/07	07/216,721	1990/07/13
3628	P0284E	Analysis Of Organic Material	Japan	Granted	0260335	1993/07/26	88102940.0	1990/02/26
3628	P0284G	Analysis Of Organic Material	Japan	Granted	2,730,624	1991/12/19	5615957	1991/01/16
3628	P0284H	Analysis Of Organic Material	Japan	Pending	562297			
3628	P0284I	Analysis Of Organic Material	Great Britain	Granted	0220335	1993/07/26	88102940.0	1990/02/26
3628	P0284J	Analysis Of Organic Material	Great Britain	Granted	4,618,916	1991/03/06	07/022,638	1991/03/06
3628	P0284K	Analysis Of Organic Material	United States	Granted	9261157	1994/06/29	88103430.7	1990/03/04
3628	P0284L	Analysis Of Organic Material	France	Granted	2,708,447	1991/10/17	5179408	1990/03/07
3628	P0284M	Power System For Inductively Coupled Plasma Torch	Japan	Granted	0261157	1994/06/29	88103430.7	1990/03/04
3628	P0284N	Power System For Inductively Coupled Plasma Torch	Great Britain	Granted	4,766,287	1994/06/29	07/022,910	1991/03/06
3628	P0284O	Power System For Inductively Coupled Plasma Torch	United States	Granted	0261158	1994/06/29	88103430.7	1990/03/04
3628	P0284P	Power System For Inductively Coupled Plasma Torch	France	Granted	2,758,165	1994/06/29	88103430.7	1990/03/04
3628	P0284Q	Power System For Inductively Coupled Plasma Torch	Japan	Granted	0261158	1994/06/29	88103430.7	1990/03/04
3628	P0284R	Power System For Inductively Coupled Plasma Torch	Great Britain	Granted	0261158	1994/06/29	88103430.7	1990/03/04
3628	P0284S	Power System For Inductively Coupled Plasma Torch	United States	Granted	4,872,970	1994/06/29	07/041,654	1991/04/22
3628	P0284T	Power System For Inductively Coupled Plasma Torch	Australia	Granted	588,926	1986/04/22	15092788	1986/04/22
3628	P0284U	Power System For Inductively Coupled Plasma Torch	France	Granted	0261822	1993/03/10	88105744.3	1990/04/11
3628	P0284V	Power System For Inductively Coupled Plasma Torch	Japan	Granted	0267822	1993/03/10	88105744.3	1990/04/11
3628	P0284W	Power System For Inductively Coupled Plasma Torch	Japan	Granted	2,644,268	1993/03/10	88105744.3	1990/04/11
3628	P0284X	Power System For Inductively Coupled Plasma Torch	Great Britain	Granted	0267822	1993/03/10	88105744.3	1990/04/11
3628	P0284Y	Power System For Inductively Coupled Plasma Torch	United States	Granted	0267822	1993/03/10	88105744.3	1990/04/11
3628	P0284Z	Power System For Inductively Coupled Plasma Torch	United States	Granted	4,995,163	1991/02/26	5179568	1990/04/11
3628	P0285A	Method Of Assembling A Chromatography Column	United States	Granted	4,813,267	1991/02/26	07/022,147	1991/03/05
3703	P0285AJP	Thermal Conductivity Detector	Japan	Granted	0281986	1994/02/02	88103409.4	1990/03/04
3703	P0285AJP	Thermal Conductivity Detector	Great Britain	Granted	0281986	1994/02/02	88103409.4	1990/03/04
3703	P0285AGB	Thermal Conductivity Detector	Europe	Granted	0281986	1994/02/02	88103409.4	1990/03/04
3703	P0285AEP	Thermal Conductivity Detector	Australia	Granted	625,233	1992/10/26	2558868	1990/11/18
3729	P0335ACA	Detector For A Spectrometer	Canada	Granted	1,321,898	1993/09/07	591,269	1990/10/26
3729	P0335ADE	Detector For A Spectrometer	France	Granted	0216802	1994/04/06	68118828.8	1990/11/11
3729	P0335ADJ	Detector For A Spectrometer	Germany	Granted	P2848925.0	1994/04/06	68118828.8	1990/11/11
3729	P0335AJP	Detector For A Spectrometer	Japan	Granted	0216802	1994/04/06	68118828.8	1990/11/11
3729	P0335AGB	Detector For A Spectrometer	Great Britain	Granted	0216802	1994/04/06	68118828.8	1990/11/11

3729	P0336ANL	Detector For A Spectrometer	Netherlands	Granted	03.16.802	1984/07/06	8611882.6	1986/11/11
3772	P0301AU	Standardization Of Spectral Lines	United States	Granted	4,803,259	1980/01/09	677201.510	1988/06/02
3772	P0301ACA	Standardization Of Spectral Lines	Australia	Granted	616,524	1987/10/21	3567319	1989/06/01
3772	P0301AFR	Standardization Of Spectral Lines	Canada	Granted	1,325,628	1983/12/23	801,317	1986/05/21
3772	P0301AIT	Standardization Of Spectral Lines	France	Granted	0344762	1983/10/27	85108647.5	1989/06/01
3772	P0301AGB	Standardization Of Spectral Lines	Japan	Granted	02,51031	1983/10/27	86108647.5	1989/06/01
3808	P0262AEP	Electrothermal Atomization Furnace For Spectrometry	Great Britain	Granted	0344762	1983/10/27	138396589	1989/06/02
3808	P0262ADE	Electrothermal Atomization Furnace For Spectrometry	Germany	Granted	0295567	1984/03/16	86108582.2	1988/06/16
3808	P0262ANL	Electrothermal Atomization Furnace For Spectrometry	Netherlands	Granted	P388401.1	1984/03/16	86108582.2	1988/06/16
3808	P0262AJP	Electrothermal Atomization Furnace For Spectrometry	Japan	Pending	0295567	1984/03/16	160393468	1988/06/20
3809	P0300AIF	Monochromator Drift Compensation	Great Britain	Granted	0295567	1984/03/16	86108582.2	1988/06/16
3809	P0300AJP	Monochromator Drift Compensation	Japan	Granted	0344763	1984/03/16	86108582.2	1988/06/16
3809	P0022AAF	Plunger Timing Mechanism For Use In Chromatography	Great Britain	Granted	2,243,411	1983/08/25	9107026.8	1989/10/04
4014	P0022AAG	Vial Locator And Sensor	France	Granted	1044499	1985/05/17	81102281.2	1989/10/21
4015	P0022AHL	Vial Locator And Sensor	Netherlands	Granted	0444499	1985/05/17	81102281.2	1989/10/21
4015	P0022AHL	Vial Locator And Sensor	Italy	Granted	0444499	1985/05/17	81102281.2	1989/10/21
4015	P0022ACH	Vial Locator And Sensor	Switzerland	Granted	0444499	1985/05/17	81102281.2	1989/10/21
4056	P0331AEF	Double Beam Detector System For Liquid Chromatography	United States	Granted	5,173,742	1982/12/22	07751,415	1989/10/28
4056	P0331ANL	Double Beam Detector System For Liquid Chromatography	Europe	Granted	0528541	1986/04/17	92114331.8	1982/08/21
4056	P0331AHL	Double Beam Detector System For Liquid Chromatography	Germany	Granted	P69209836.0	1986/04/17	92114331.8	1982/08/21
4056	P0331AJP	Double Beam Detector System For Liquid Chromatography	Netherlands	Granted	0528541	1986/04/17	92114331.8	1982/08/21
4056	P0331AGB	Double Beam Detector System For Liquid Chromatography	Italy	Granted	0528541	1986/04/17	92114331.8	1982/08/21
4067	P0030ADE	Inductively Coupled Plasma Generator	Switzerland	Granted	0535241	1986/04/17	92114331.8	1982/08/21
4067	P0030AEP	Inductively Coupled Plasma Generator	Germany	Granted	0568920	1986/04/27	931068223.1	1983/04/28
4067	P0030AHL	Inductively Coupled Plasma Generator	Europe	Granted	0568920	1986/04/27	931068223.1	1983/04/28
4067	P0030AJP	Inductively Coupled Plasma Generator	France	Granted	0568920	1986/04/27	931068223.1	1983/04/28
4067	P0030AGB	Inductively Coupled Plasma Generator	Italy	Granted	0568920	1986/04/27	931068223.1	1983/04/28
4088	P0307AFR	Method And Apparatus For Comparing Spectra	Great Britain	Granted	0584920	1986/02/27	831068223.1	1983/04/28
4088	P0307ANL	Method And Apparatus For Comparing Spectra	United States	Granted	06268920	1986/02/27	931068223.1	1983/04/28
4088	P0307ACH	Method And Apparatus For Comparing Spectra	France	Granted	0535700	1984/05/03	07856,518	1982/10/02
4088	P0307AGB	Method And Apparatus For Comparing Spectra	Netherlands	Granted	0535700	1987/02/26	92116913.2	1982/10/02
4088	P0008AA	Electrothermal Atomization Of Samples	Switzerland	Granted	0535700	1987/02/26	92116913.2	1982/10/02
3807	P0008AAU	Electrothermal Atomization Of Samples	Great Britain	Granted	0584920	1986/02/27	831068223.1	1983/04/28
3807	P0008AAE	Electrothermal Atomization Of Samples	United States	Granted	06268920	1986/02/27	931068223.1	1983/04/28
3807	P0008AHL	Electrothermal Atomization Of Samples	France	Granted	P3878018.5	1982/11/18	86108581.4	1984/06/16
3807	P0008AJP	Electrothermal Atomization Of Samples	Germany	Granted	0296490	1982/11/18	86108581.4	1984/06/16
3536	P0298AAF	Detector Cell For Liquid Chromatography	Europe	Granted	0296490	1982/11/18	86108581.4	1984/06/16
3536	P0298AHL	Detector Cell For Liquid Chromatography	Netherlands	Granted	0296490	1982/11/18	86108581.4	1984/06/16
3536	P0298AJP	Detector Cell For Liquid Chromatography	Japan	Granted	2,631,628	1987/04/25	150392788	1984/06/20
3536	P0298AGB	Detector Cell For Liquid Chromatography	United States	Granted	4,886,356	1989/12/12	071716,524	1984/06/20
3536	P0298AIF	Detector Cell For Liquid Chromatography	France	Granted	0333268	1985/07/12	86108583.1	1989/03/23
3536	P0298AHL	Detector Cell For Liquid Chromatography	Netherlands	Granted	0333268	1985/07/12	86108583.1	1989/03/23
3536	P0298AJP	Detector Cell For Liquid Chromatography	Italy	Granted	0333268	1985/07/12	86108583.1	1989/03/23
3536	P0298AGB	Detector Cell For Liquid Chromatography	Germany	Granted	0333268	1985/07/12	86108583.1	1989/03/23
3973	P0022AA	Quadropole Mass Filter For Charged Particles	Netherlands	Granted	4,968,626	1985/07/12	86108583.1	1989/03/23
4076	P0033AAG	Probe Detector Amplifier Linearity	United States	Granted	5,229,638	1985/07/12	07462,245	1989/01/09
4076	P0033AAG	Probe Detector Amplifier Linearity	United States	Granted	5,229,638	1985/07/12	07462,245	1989/01/09
4317	P0041ADE	Hybrid Valving System For Varying Fluid Flow Rate	Great Britain	Granted	0520285	1984/03/22	84108981.5	1984/06/27
4317	P0041AGB	Hybrid Valving System For Varying Fluid Flow Rate	Germany	Granted	0520285	1984/03/22	84108981.5	1984/06/27
4317	P0041AGB	Hybrid Valving System For Varying Fluid Flow Rate	France	Granted	0520285	1984/03/22	84108981.5	1984/06/27
4317	P0041AGB	Hybrid Valving System For Varying Fluid Flow Rate	Great Britain	Published	0520285	1984/03/22	84108981.5	1984/06/27



2166	P00837A	Fluid Flow Control Device	United States	Granted	4,354,932	1982/10/19	06/19/2002	1980/10/15
4458	P00659A	Heater Control Circuit	United States	Granted	5,672,289	1907/08/20	06/59/210	1986/07/11
4443	P00664A	Apparatus For Controlling Level Of Cryogenic Liquid	United States	Granted	5,671,603	1997/08/20	06/59/210	1986/12/08
4435	P00654A	Dry Gas Curtain For Cryogenic Surface	United States	Granted	5,590,537	1997/07/07	06/82/4,555	1986/03/07
4431	P00505A	Chamber Having Rapid Coating Of A Heating Vessel Therein	United States	Granted	5,076,118	1992/03/02	06/59/358	1995/12/08
4430	P0049A	Gas Chromatographic System With Controlled Sample Transfer	United States	Granted	5,711,786	1992/01/27	06/73/4,688	1996/10/21
4411	P0047A	Flow Regulation In Gas Chromatograph	United States	Granted	5,645,252	1994/08/13	06/91/7,017	1995/02/01
3522	P0200A	Gas Control Device For Controlling The Fuel Gas	United States	Granted	4,681,530	1987/07/21	06/85/7,710	1986/08/16
4173	P0309AJP	Differential Dielectric Analyzer	Japan	Pending				1993/03/02
3536	P0298AEP	Detector Cell	Europe	Granted	0,355,288	1995/07/12	06/105/263,1	1999/03/23
2856	P0276A	Optical Coupling Device	United States	Granted	4,484,212	1985/01/15	06/62/8,547	1984/07/06
2782	P0276A	Flowmeter System With Synchronous Circuit For Generation Of Tri	United States	Granted	4,345,470	1982/08/24	06/72/4,783	1981/07/13
2730	P0279A	Multi-port Valve In Gas Collection System And Method Of Use	United States	Granted	4,601,211	1986/07/22	06/88/0,659	1984/12/12
3538	P0298AJP	Low Cost Detector Cell	Japan	Granted	12,042,337	1999/12/24	78/62/8,9	1986/03/11
3538	P0298BEP	Detector Cell For Liquid Chromatography	Europe	Published	06,285,74		84,108/752,9	1999/03/23
4511	P0089C	Monitoring Constituents Of An Aerial Organ Using Shellfish	United States	Pending			06/84/79,642	2000/01/07
5015	P0343A	Barcode Labeling Of A1D Tubes	United States	To File				
4479	P0064ACH	Analyzing Spectrometric Data	Switzerland	Granted	0,834,725		97,117/174,9	1997/10/02
4479	P0064ADE	Analyzing Spectrometric Data	Germany	Granted	0,834,725			
4479	P0064AFR	Analyzing Spectrometric Data	France	Granted	0,834,725			
4479	P0064AGB	Analyzing Spectrometric Data	Great Britain	Granted	0,834,725			
4479	P0064AAT	Analyzing Spectrometric Data	Italy	Granted	0,834,725			
4479	P0064ANL	Analyzing Spectrometric Data	Netherlands	Granted	0,834,725			
2730	P0279AJP	Multi-ported Growth And Detection Strategy	Japan	Granted	1,038,629	1984/04/25	27/611/765	1985/12/12
49M5	P0027ADE	Multi-port Valve In Gas Collection System And Method Of Use	Germany	Granted	0,650,006		93,100/106,9	1985/01/07
4046	P0020ADE	Photodetector Amplifier Linearity	Germany	Granted	989,309,504	1997/04/09	93,100/102,8	1993/01/07
4076	P0033AAU	Absorbance Correction In Atomic Absorption Spectroscopy	Australia	Granted	654,088		29,819/82	
4137	P0039AAU	Grouping Of Spectral Bands For Data Acquisition	Australia	Granted	667,614		57,673/94	
4493	P0089AEP	Tunable External Cavity Diode Laser	Europe	Published			97,930/51,6	1997/07/28
4642	P0345A	Use Of Hg Lines From Hg Lamp For Wavelength Standardization	United States	To File				
4641	P0015AJP	Low Cost Detector Cell	Japan	Granted	3,016,789	1999/12/24	78,752/89	1999/12/24
4641	P0346A	Use Of Ne Lines For ICP Instrument Standardization	United States	To File			60/193,974	2000/03/31
5003	P0347A	Methods And Apparatus To Improve The Sensitivity	United States	Pending			60/193,974	2000/03/31
5006	P0348A	Apparatus And Methods For Bismutinous Analytical Methods	United States	Pending			60/193,974	2000/03/31
	P0349A	Polymeric Sampling Syringe						
	P0350A	Polymeric Reagent Pad						
	P0351A	Sampling Device For Use In Automated Methods						
3824	P0099A	Arc Spray Gun For Coating Confined Areas	United States	Granted	4,853,513	1989/08/01	07/187,106	1989/04/28
3824	P0099AGA	Arc Spray Gun For Coating Confined Areas	Canada	Granted	1,314,944	1993/03/23	667,288	1989/04/20
3824	P0099AJP	Arc Spray Gun For Coating Confined Areas	Japan	Granted	2,184,470	1988/08/25	1-10/4817	1988/04/26
3824	P0099AEP	Arc Spray Gun For Coating Confined Areas	Europe	Granted	0,233,965		89,107/686,1	1989/04/27
3824	P0099ACN	Arc Spray Gun For Coating Confined Areas	China	Granted	1,033,978			
3824	P0099ADE	Arc Spray Gun For Coating Confined Areas	Germany	Granted	699,256,46		89,107/686,1	1989/04/27
	P0032AJP							
5000	P0353A	Pedding Of The Torch Glassware	United States	Pending			60/175,989	2000/01/13
3264	P0002A	Digital Gain Controlled Current To Voltage Amplifier	United States	Granted	4,689,877	1987/08/02	06/70/4,386	1985/02/22
	P0326ACH	Detection Of Low Level Hydrophobic Analyses In Samples						
	P0326ADE	Detection Of Low Level Hydrophobic Analyses In Samples						
	P0326AFR	Detection Of Low Level Hydrophobic Analyses In Samples						
	P0326AGB	Detection Of Low Level Hydrophobic Analyses In Samples						
	P0326AAT	Detection Of Low Level Hydrophobic Analyses In Samples						
4590	P0073AVWO	Autosampler Having Gripper With Shape Memory Metal Actuator	PCT	Pending			PCT/US00/0336	2000/02/14
	P0071B	Autosampler	United States	Pending			09/518,466	2000/03/03
	P0045ADE	Needler	Germany	Pending			695,14,870,2-08	1995/06/22
	P0047BAU	Flow Regulation In Gas Chromatograph	Australia	Pending			1757/800	2000/02/18

4484	P0357A	Fluid Conveying Device With Removable Connection	Italy	Pending					
	P0357A	Fluid Conveying Device With Removable Connection	France	Pending					
	P0357A	Fluid Conveying Device With Removable Connection	Germany	Pending					
	P0357A	Fluid Conveying Device With Removable Connection	Switzerland	Pending					
	P0357A	Self-Aligning Optical Fiber Terminator	PCT	Pending					
	P0357A	Non-Contacting Method of Cleaning Surfaces	United States	Granted	4,866,024	1990/08/11	PCT/US90/0887	2000/04/01	
	P0357A	Non-Contacting Method of Cleaning Surfaces	Canada	Granted	1,315,923	1983/04/13	07/29,1,715	1989/04/07	
	P0357A	Non-Contacting Method of Cleaning Surfaces	Europe	Granted	0,324,435	1989/07/19	6,57,946	1989/07/11	
	P0357A	Non-Contacting Method of Cleaning Surfaces	Japan	Granted	1,225,125	1989/07/19	89100246,9	1989/07/10	
	P0357A	Non-Contacting Method of Cleaning Surfaces	Germany	Granted	6,800,422	1993/11/04	6,99,422	1989/07/11	
	P0358A	Scanning Array Spectrophotometer	United States	Granted	4,798,464	1993/01/17	06/03,8,668	1986/03/12	
	P0358A	Method And Apparatus For Reactionless Reflection	United States	Granted	5,131,611	1992/07/21	691,936	1991/04/26	
	P0359A	Nebulizer	Germany	Granted	693,320		P-9514870,2		
	P0359A	Nebulizer	United Kingdom	Granted	693,320				
	P0359A	Nebulizer	Netherlands	Granted	693,320				
	P0359A	Method For Processing A Sample	Italy	Granted	0,528,285	1993/09/02	92112315,8	1992/07/20	
	P0359A	Single Element Thermal Conductivity Detector	Japan	Granted	2,678,979	1990/08/28	198,545	1986/05/16	
	P0359A	High Pressure Column Assembly For A Liquid Chromatograph	United States	Granted	4,952,658	1988/11/23	87108854,4	1989/05/17	
	P0359A	Microbiological Apparatus	Europe	Granted	0,342,639	1990/02/06	123,023	1989/03/18	
	P0359A	Microbiological Apparatus	Japan	Granted	2,035,709	1992/06/23	598,723	1989/05/15	
	P0359A	Microbiological Apparatus	Canada	Granted	1,304,173	1996/02/08	623,233	1989/05/17	
	P0359A	Microbiological Apparatus	Germany	Granted	699,252,3				
	P0359A	Design Of A Device For Sampling A Surface To Collect	United States	To File					
	P0359A	Permeant Carrier For Reagents	United States	To File					
	P0359A	Low Cost Internal Calibration Standard	United States	To File					
	P0359A	Dual Photodiode Connection Of Background For Fluorescence	United States	To File					
	P0359A	Atomic Absorption Spectrometer	Great Britain	Granted	2,180,044				
	P0359A	Gas Control Device For Controlling The Fuel Gas	Germany	Granted	P3870372,9		P3870372,9		
	P0359A	Conductive Coating To Eliminate Charge Effects And Reduce	United States	To File					
	P0359A	Self-Check Swab And Swabbing Technique	United States	To File					
	P0359A	Dual Photodiode Connection Of Background For Fluorescence	United States	To File					
	P0359A	Self-Check Detection Of Inhibitory Components	United States	To File					
	P0359A	Grouping Of Spectral Bands For Data Acquisition	Germany	Pending					
	P0359A	Device For Igniting A Flame In An Atomic Absorption Estromet	Great Britain	Granted	2,180,328	1987/03/25	882,842	1986/09/10	
	P0359A	Device For Igniting A Flame In An Atomic Absorption Estromet	Germany	Granted	P3532537,2	1987/03/19	P3532537,2	1986/09/12	
	P0359A	Gas Control Device For Controlling The Fuel Gas	Germany	Granted	3,329,547,3			1986/09/17	
	P0359A	Method For Measuring Absolute Value Of Thermal Conductivity	United States	Pending					
	P0359A	Method Of Detecting Organisms In A Sample	United States	Granted	5,902,722	1989/05/11	01/985,574	200/06/08	
	P0359A	Method Of Detecting Organisms In A Sample	United States	Pending				1997/12/05	
	P0359A	Planar Electrochemical Gas Sensor	United States	To File					
	P0359A	Electrochemical Gas Sensor With Miniaturized Flow Channels	United States	To File					
	P0359A	Catharometer Electrochemical Sensor	United States	To File					
	P0359A	Electrochemical Sensor With Dry Nafion	United States	To File					
	P0359A	Integrated Electrochemical Gas Generator	United States	To File					
	P0359A	Prevention Of Flooding In Thick-Film Electrochemical Sensors	United States	To File					
	P0359A	RH Compensation For Electrochemical Sensors With Different	United States	To File					