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Case Number	Sub Case	Appl/Patent Number	Filing Date	Patent Number	Issue Date	Title
14117	C3	08/589904	1/23/1996	5856192	1/5/1999	Precision and Accuracy of Anion Exchange Separation of Nucleic Acids
14117	D1	08/515885	8/16/1995	5866429	2/2/1999	Precision and Accuracy of Anion Exchange Separation of Nucleic Acids
1555		06/592638	3/23/1984	4668476	5/26/1987	Automated polypeptide synthesis apparatus
1555	D1	07/053324	5/22/1987	4816513	3/28/1989	Automated polypeptide synthesis apparatus
1555	D2	07/328488	3/24/1989	5186898	2/16/1993	Automated polypeptide synthesis apparatus
1555	D3	07/973137	11/6/1992	5273715	12/28/1993	Automated polypeptide synthesis apparatus
1646	C2	07/328471	3/24/1989	5346999	9/13/1994	Method of nucleic acid extraction
1678		06/769170	8/26/1985	4757141	7/12/1988	Amino-derivatized phosphite and phosphate linking agents, phosphoramidite precursors
1678	D1	07/216768	7/8/1988	5212304	5/18/1993	Amino-derivatized phosphoramidite linking
1678	D2	07/784575	10/29/1991	5258538	11/2/1993	2,3-disubstituted-1,3,2-oxazaphosphacycloalkanes as nucleic acid linking agents
1705		06/827348	2/7/1986	4855225	8/8/1989	Method of detecting electrophoretically separated oligonucleotides.
1774		06/869421	6/2/1986	4811218	3/7/1989	Real time scanning electrophoresis apparatus for DNA sequencing
1798		07/065022	6/19/1987	4852017	7/25/1989	Determination of peptide sequences
1798	D1	07/065012	6/19/1987	4837726	6/6/1989	Quantitation of chromatographic information
1853		07/050755	5/15/1987	4971915	11/20/1990	Simulated Distillation of Petroleum Residues by Capillary SFC
1890		07/138287	12/24/1987	4965349	10/23/1990	Method of synthesizing oligonucleotides labeled with ammonia-labile groups on solid phase supports
1890	D1	07/601961	10/22/1990	5231191	7/27/1993	Rhodamine phosphoramidite compounds
1933	C2	07/767345	9/27/1991	5207886	5/4/1993	Capillary electrophoresis.
1933	D2	07/461568	1/5/1990	5240576	8/31/1993	Capillary electrophoresis.

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1933	D4	08/324359	10/17/1994	5597468	1/28/1997	Capillary electrophoresis.
1942		07/287890	12/21/1988	5047524	9/10/1991	Automated system for polynucleotide synthesis and purification.
1942	C1	07/558747	7/27/1990	5262530	11/16/1993	Automated system for polynucleotide synthesis and purification.
1942	D1	08/055464	4/29/1993	5935527	8/10/1999	Automated system for polynucleotide synthesis and purification.
1942	D2	09/281205	3/30/1999	6175006	1/16/2001	Automated system for polynucleotide synthesis and purification.
1987	C1	07/561366	7/31/1990	5239360	8/24/1993	Lens for Capillary Electrophoresis and Chromatography
2032		07/321230	3/8/1989	5106583	4/21/1992	Automated Protein Hydrolysis System
3013	C1	07/927254	8/7/1992	5443791	8/22/1995	Automated molecular biology laboratory
3025	C1	07/697916	5/1/1991	5124041	6/23/1992	Biomolecule sample immobilization
3029	C1	08/598188	12/1/1994	5841959	11/24/1998	Robotic interface
3681		07/188925	5/2/1988	4962045	10/9/1990	Time-Resolved Fluorimetric Detector of Lanthanide Labeled Nucleotides
4000		07/621485	12/4/1990	5078361	1/7/1992	Positive opening pinch valve
4001	C4	08/539496	10/6/1995	5653259	8/5/1997	Valve Block
4002		07/276139	11/23/1988	6054266	4/25/2000	Nucleic acid detection with separation
4004		07/148757	1/26/1988	5093245	3/3/1992	Labeling by simultaneous ligation and restriction
4005		07/416588	10/3/1989	5427729	6/27/1995	Gel-packed columns suitable for use in chromatography
4006		07/486893	2/28/1990	5110431	5/5/1992	On-Capillary Gap Junction for Fluorescence Detection in Capillary Electrophoresis
4008		07/415050	9/29/1989	5366860	11/22/1994	Spectrally resolvable rhodamine dyes for nucleic acid sequence determination

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4013		07/691272	4/25/1991	5300774	4/5/1994	Time-of-flight mass spectrometer with an aperture enabling tradeoff of transmission
4029	C1	07/601962	10/22/1990	5366877	11/22/1994	Restriction/ligation labeling for primer initiated multiple copying of DNA ssequences
4086		07/390631	8/7/1989	5096554	3/17/1992	Nucleic Acid Fractionation by counter-migration capillary electrophoresis
4086	I1	07/562790	8/6/1990	5110424	5/5/1992	Nucleic Acid Fractionation by counter-migration capillary electrophoresis
4102		07/590218	9/28/1990	5187085	2/16/1993	Nucleic acid sequence analysis with nucleoside-5'-O-(1-thiotriphosphates)
4118		07/432061	11/6/1989	5015350	5/14/1991	Flow-rate-controlled surface-charge coating for capillary electrophoresis
4118	C1	07/682582	4/8/1991	5181999	1/26/1993	Capillary electrophoresis method with polymer
4119		07/436455	11/14/1989	5188934	2/23/1993	4,7-dichlorofluorescein dyes as molecular probes
4119	C2	08/400780	3/8/1995	5654442	8/5/1997	4,7-dichlorofluorescein dyes as molecular probes
4119	C3	08/905855	8/4/1997	5885778	3/23/1999	4,7-dichlorofluorescein dyes as molecular probes
4119	C4	09/273655	3/23/1999	6096723	8/1/2000	4,7-dichlorofluorescein dyes as molecular probes
4119	C5	09/580754	5/30/2000	6403812	6/11/2002	4,7-dichlorofluorescein dyes as molecular probes
4125		07/454666	12/21/1989	5049507	9/17/1991	Method of C-terminal peptide sequencing
4125	I1	07/547088	6/29/1990	5041388	8/20/1991	Method of C-terminal peptide sequencing
4127		07/472045	1/29/1990	5164055	11/17/1992	High viscosity polymer matrix and methods
4128		07/936979	8/28/1992	5338426	8/16/1994	Horizontal polyacrylamide gel electrophoresis
4138		07/464182	1/12/1990	5166387	11/24/1992	Method of Synthesizing Sulfurized

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4141		07/775771	10/15/1991	5185266	2/9/1993	Cleavage method for acyl thiohydantoins and use of the method in C-terminal peptide sequencing
4143		07/788322	11/5/1991	5298259	3/29/1994	Subunit delivery composition and method
4143	C2	08/183104	1/14/1994	5462748	10/31/1995	Subunit delivery composition and method
4148		07/729492	7/12/1991	5281701	1/25/1994	Process and compounds for RNA synthesis
4149	C1	08/227914	4/15/1994	5434664	7/18/1995	Capillary flow cell for multiple wavelengths
4150		08/003351	1/12/1993	5430541	7/4/1995	High efficiency fluorescence flow cell for capillary liquid chromatography or capillary electrophoresis
4152		07/546303	6/29/1990	5051368	9/24/1991	Method for Forming an Amino Acid Thiohydantoin Using an N-Substituted Ketenimine Activator
4153		07/731771	7/17/1991	5126021	6/30/1992	Low viscosity polymer solution for capillary
4155		08/039137	4/14/1993	5759771	6/2/1998	Method of Determining a Genotype by Comparing the Nucleotide Sequence of Members of a Gene Family and Kit Therefor
4157		07/877956	5/1/1992	5264101	11/23/1993	Capillary electrophoresis molecular weight separation of biomolecules using a polymer-containing solution
4158		07/914280	7/15/1992	5304497	4/19/1994	Method of Forming N-Protected Amino Acid Thiohydantoins
4171		07/965827	10/23/1992	5274227	12/28/1993	Capillary detector cell having imaging elements positioned to optimize sensitivity
4173		07/850764	3/13/1992	5384024	1/24/1995	Capillary Electrophoresis
4178	C1	08/199722	2/22/1994	5994057	11/30/1999	Method of detecting aneuploidy by amplified short-tandem repeats
4179	10	08/877460	6/17/1997	5807682	9/15/1998	Probe composition containing a binding domain and polymer chain and method of use

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4179	C1	07/866018	4/7/1992	5470705	11/28/1995	Probe composition containing a binding domain and polymer chain and methods of use
4179	C3	08/102372	8/4/1993	5514543	5/7/1996	Probe composition containing a binding domain and polymer chain and methods of use
4179	C4	08/296880	8/26/1994	5580732	12/3/1996	Probe composition containing a binding domain and polymer chain and methods of use
4179	C5	08/447174	5/19/1995	5624800	4/29/1997	Probe composition containing a binding domain and polymer chain and methods of use
4179	C7	08/561478	11/21/1995	5703222	12/30/1997	Probe composition containing a binding domain and polymer chain and methods of use
4179	C8	08/643709	5/6/1996	5777096	7/7/1998	Probe composition containing a binding domain and polymer chain and methods of use
4179	C9	08/800641	2/14/1997	5989871	11/23/1999	Probe composition containing a binding domain and polymer chain and methods of use
4181		07/950863	9/24/1992	5290418	3/1/1994	Viscous Electrophoresis polymer medium and method
4181	C1	08/125623	9/22/1993	5468365	11/21/1995	Viscous Electrophoresis polymer medium and method
4182		08/059946	5/7/1993	5372695	12/13/1994	Application specific capillary electrophoresis
4186		08/186080	1/25/1994	5423966	6/13/1995	On Line Ion Contaminant Removal Apparatus and Method for Capillary Electrophoresis

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4186	D1	08/372737	1/13/1995	5593559	1/14/1997	On Line Ion Contaminant Removal Apparatus and Method for Capillary Electrophoresis
4191	C1	08/129607	9/29/1993	5602207	2/11/1997	Support and method for immobilizing polypeptides
4191	D1	08/623431	3/28/1996	5717075	2/10/1998	Immobilization of polypeptides on a polyvinylidene difluoride membrane containing
4197	C2	08/554247	11/8/1995	5891313	4/6/1999	Entrapment of DNA sequencing template in sample mixtures by entangled polymer networks
4197	C3	09/264757	3/9/1999	6051636	4/18/2000	Entrapment of DNA sequencing template in sample mixtures by entangled polymer networks
4198		08/003968	1/21/1993	5374527	12/20/1994	High Resolution DNA Sequencing Method Using Low Viscosity Medium
4205		08/280261	7/25/1994	5770859	6/23/1998	Time of Flight Mass Spectrometer Having Microchannel Plate and Modified Dynode for Improved Sensitivy
4209	C1	08/272496	7/8/1994	5665603	9/9/1997	Thiohydantoin formation and selective modification of the carboxy terminus of an aspartic acid- and/or glutamic acid-containing protein
4210	C1	08/048975	4/16/1993	5593826	1/14/1997	Enzymatic ligation of 3'amino-substituted oligonucleotides
4215	C1	08/975902	9/19/1996	5912148	6/15/1999	Coupled Amplification and Ligation Method
4215	C2	09/251565	2/17/1999	6130073	10/10/2000	Coupled Amplification and Ligation Method
4221	C1	08/350852	12/6/1994	5567292	10/22/1996	Polymers for separation of biomolecules by capillary electrophoresis
4221	C3	08/916751	8/19/1997	5916426	6/29/1999	Polymers for separation of biomolecules by capillary electrophoresis

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4221	C4	08/950926	10/15/1997	6355709	3/12/2002	Polymers for separation of biomolecules by capillary electrophoresis
4221	C5	09/228991	1/11/1999	6358385	3/19/2002	Polymers for separation of biomolecules by capillary electrophoresis
4221	D1	08/458525	6/2/1995	5552028	9/3/1996	Polymers for separation of biomolecules by capillary electrophoresis
4229		08/206995	3/7/1994	5384025	1/24/1995	Notched spacer for slab-gel electrophoresis
4230		08/192485	2/7/1994	5543026	8/6/1996	Improved real-time scanning fluorescence electrophoresis apparatus for the analysis of
4231		08/511846	8/7/1995	5843656	12/1/1998	Recombinant clone selection system
4231	C2	08/695834	8/7/1996	5750346	5/12/1998	Host organism capture
4231	D2	09/241592	2/2/1999	6090562	7/18/2000	Recombinant clone selection system
4231	I1	08/585552	1/11/1996	6100043	8/8/2000	Recombinant clone selection system
4233	C2	08/558047	11/13/1995	5798032	8/25/1998	Method and apparatus for automated carbohydrate mapping and sequencing
4239		08/293637	8/17/1994	5552471	9/3/1996	Solid support reagents for the synthesis of 3'-Nitrogen containing polynucleotides
4239	D1	08/576206	12/21/1995	5625052	4/29/1997	Solid support reagents for the synthesis of 3'-Nitrogen containing polynucleotides
4241	C1	08/752973	12/2/1996	5928907	7/27/1999	System for real time detection of nucleic acid amplification products
4241	C2	09/046114	3/20/1998	6015674	1/18/2000	Apparatus and method for detecting nucleic acid amplification products
4251		08/946512	10/7/1997	5942432	8/24/1999	An Apparatus for a Fluid Impingement Thermal Cycler
4253		08/332674	11/1/1994	5483075	1/9/1996	Rotary Scanning Apparatus
4259	I1	08/538666	10/3/1995	6103465	8/15/2000	Methods and Reagents for Typing HLA Class I Genes
4261		08/414663	3/31/1995	5656034	8/12/1997	High-Pressure Micro-Volume Syringe Pump

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4262		08/302154	9/8/1994	5468843	11/21/1995	Acetic anhydride activation for C-terminal protein sequencing
4266		08/887350	7/2/1997	6248239	6/19/2001	Effluent Collection Apparatus and Method
4271		08/501674	7/12/1995	5578179	11/26/1996	Method and Silicate Composition for Conditioning Silicate Surfaces
4271	D1	09/005075	1/9/1998	6297009	10/2/2001	Method and Silicate Composition for Conditioning Silicate Surfaces
4273	C1	08/826538	4/3/1997	6485903	11/26/2002	Methods and Reagents for Combined PCR Amplification and Hybridization Probing
4273	D1	08/710075	9/11/1996	5691146	11/25/1997	Methods and Reagents for Combined PCR Amplification and Hybridization Probing
4273	D2	08/859472	5/19/1997	6395518	5/28/2002	Methods and Reagents for Combined PCR Amplification and Hybridization Probing
4282		08/568606	12/5/1995	5972716	10/26/1999	Frosted amplification and/or detection vessels (Frosted Microamp tubes)
4283		08/579204	12/20/1995	5748491	5/5/1998	Deconvolution Method for the Analysis of Data Resulting from Analytical Separation Processes
4291		08/831983	4/2/1997	6126899	10/3/2000	Device for multiple analyte detection
4291	D1	09/012045	1/22/1998	6124138	9/26/2000	Device for multiple analyte detection
4293		09/191417	11/12/1998	6176991	1/23/2001	Serpentine electrophoresis Channel with Self-Correcting Bends
4294		08/873437	6/12/1997	6124092	9/26/2000	Multiplex Polynucleotide Capture Methods and Compositions
4296		08/593031	1/29/1996	5736626	4/7/1998	Solid support reagents for the direct synthesis of 3'-labeled polynucleotides
4299		08/626085	4/1/1996	6020481	2/1/2000	Asymmetric benzoxanthene dyes
4299	C1	09/495111	2/1/2000	6303775	10/16/2001	Asymmetric benzoxanthene dyes
4299	D1	08/824102	3/26/1997	5840999	11/24/1998	Asymmetric benzoxanthene dyes

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4303		08/642330	5/3/1996	5863727	1/26/1999	Energy transfer dyes with enhanced fluorescence
4303	C3	09/272097	3/18/1999	6335440	1/1/2002	Method for detecting oligonucleotides using energy transfer dyes with long stoke shift
4303	I1	08/726462	10/4/1996	5800996	9/1/1998	Energy transfer dyes with enhanced fluorescence
4303	I2	09/046203	3/23/1998	5945526	8/31/1999	Energy transfer dyes with enhanced fluorescence
4306		08/659115	6/3/1996	6015667	1/18/2000	Multicomponent analysis method including the determination of a statistical confidence interval
4308		08/596560	2/5/1996	5716784	2/10/1998	Fluorescence Detection Assay For Homogeneous PCR Hybridization Systems
4309		08/672196	6/27/1996	5847162	12/8/1998	4,7-Dichlororhodamine Dyes
4309	D1	09/191421	11/12/1998	6017712	1/25/2000	4,7-Dichlororhodamine Dyes
4309	I1	09/038191	3/10/1998	6025505	2/15/2000	4,7-Dichlororhodamine Dyes
4309	I2	09/277793	3/27/1999	6080852	6/27/2000	4,7-Dichlororhodamine Dyes
4310		08/657989	6/4/1996	5736333	4/7/1998	Passive internal references for the detection of nucleic acid amplification products
4314	C1	08/696808	8/13/1996	5821356	10/13/1998	Propargylethoxyamino nucleotides
4314	D1	09/583068	6/18/1998	6248568	6/19/2001	Propargylethoxyamino nucleotides
4318		08/744490	11/6/1996	5873052	2/16/1999	Alignment-Based Similarity Scoring Methods for Quantifying the Differences Between
4321		08/785581	1/21/1997	6017702	1/25/2000	Chain-termination type nucleic acid sequencing method including 2'-deoxyuridine-5'-triphosphate
4323		08/766009	12/13/1996	5833826	11/10/1998	Method and Apparatus for Reducing the Distortion of a Sample Zone Eluting From a Capillary Electrophoresis Capillary

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4324		08/986176	12/5/1997	5998143	12/7/1999	Cycle Sequencing Thermal Profiles
4335		08/833855	4/10/1997	5770716	6/23/1998	Substituted Propargylethoxyamido Nucleosides, Oligonucleotides and Methods for Using Same
4336		09/183294	10/30/1998	6228659	5/8/2001	Method and Apparatus for Making Arrays
4339		09/191390	11/12/1998	5942609	8/24/1999	Ligation Assembly and Detection of Polynucleotides on Solid-Support
4340		08/863437	5/27/1997	5945284	8/31/1999	Length Determination of Nucleic Acid Repeat Sequences by Discontinuous Primer Extension
4340	I1	09/205114	12/3/1998	6309829	10/30/2001	Length Determination of Nucleic Acid Repeat Sequences by Discontinuous Primer Extension
4341		08/987329	12/9/1997	5972613	10/26/1999	Methods of Nucleic Acid Isolation
4343		09/073465	5/5/1998	6054278	4/25/2000	Ribosomal RNA Gene Polymorphism Based Microorganism Identification
4347	D2	09/324709	6/3/1999	6154707	11/28/2000	Computer Logic for Fluorescence Genotyping At Multiple Allelic Sites
4355		08/924031	8/29/1997	6043070	3/28/2000	Phosphoramidate-phosphodiester Oligonucleotide Chimera as Primers
4355	D1	09/271060	3/16/1999	6030813	2/29/2000	Phosphoramidate-phosphodiester Oligonucleotide Chimera as Primers
4356		08/942067	10/1/1997	6008379	12/28/1999	Aromatic-Substituted Xanthene Dyes
4360	I1	09/130258	8/6/1998	5972618	10/26/1999	Improved Detection of Mutations in Nucleic Acids by Chemical Cleavage
4365		08/978775	11/25/1997	5936087	8/10/1999	Dibenzorhodamine dyes
4365	C1	09/784943	2/14/2001	6326153	12/4/2001	Dibenzorhodamine dyes
4365	D1	09/199402	11/24/1998	6111116	8/29/2000	Dibenzorhodamine dyes
4365	D2	09/556040	4/20/2000	6221606	4/24/2001	Dibenzorhodamine dyes
4365	I1	09/193374	11/17/1998	6051719	4/18/2000	Dibenzorhodamine dyes
4366		09/008805	1/16/1998	6054568	4/25/2000	Nucleobase Oligomers

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4372		09/017977	2/3/1998	6131072	10/10/2000	Lane Tracking System and Method
4373		09/135381	8/17/1998	6232067	5/15/2001	Adapter directed expression analysis
4373	I1	09/303774	4/30/1999	6258539	7/10/2001	Restriction enzyme mediated adapter
4375		09/087250	5/29/1998	5948648	9/7/1999	Nucleotide Compounds Including a Rigid Linker
4375	D2	09/461510	12/14/1999	6197555	3/6/2001	Nucleotide Compounds Including a Rigid Linker
4375	I1	09/172789	10/14/1998	6096875	8/1/2000	Nucleotide Compounds Including a Rigid Linker
4378		09/012525	1/23/1998	6080868	6/27/2000	Nitro-substituted non-fluorescent asymmetric cyanine dye compounds
4378	I1	09/357740	7/20/1999	6348596	2/19/2002	Nitro-substituted non-fluorescent asymmetric cyanine dye compounds
4382		09/048880	3/26/1998	5952202	9/14/1999	Methods for Exogenous, Internal Controls During Nucleic Acid Amplification
4386		09/062381	4/17/1998	5993628	11/30/1999	Electrophoresis Method and Apparatus for Separating Bio-Organic Molecules
4386	I1	09/301080	4/28/1999	6171463	1/9/2001	Electrophoresis Method and Apparatus for Separating Bio-Organic Molecules
4389		09/158695	9/21/1998	6379957	4/30/2002	Novel Methods for HIV Sequencing and Genotyping
4392		09/073130	5/5/1998	6040586	3/21/2000	Method and System for Velocity-Normalized Position-Based Scanning
4396		09/152590	9/14/1998	6132582	10/17/2000	Sample Handling System for a Multi Channel Capillary Electrophoresis Device
4398		09/151928	9/11/1998	6162341	12/19/2000	Multi-Channel Capillary Electrophoresis Device Including Sheath-Flow Cuvette and
4398	C1	09/805624	3/13/2001	6387236	5/14/2002	Multi-Channel Capillary Electrophoresis Device Including Sheath-Flow Cuvette and

Case Number	Sub Case	Application Number	Filing Date	Patent Number	Issue Date	Title
4398	D1	09/621071	7/21/2000	6231739	5/15/2001	Multi-Channel Capillary Electrophoresis Device Including Sheath-Flow Cuvette and
4400		09/270218	3/15/1999	6296702	10/2/2001	Apparatus and Method for Spotting a Substrate
4400	D1	09/812643	3/20/2001	6440217	8/27/2002	Apparatus and Method for Spotting a Substrate
4400	D2	09/813233	3/20/2001	6467700	10/22/2002	Apparatus and Method for Spotting a Substrate
4400	D3	09/812961	3/20/2001	6413586	7/2/2002	Apparatus and Method for Spotting a Substrate
4401		09/292777	4/12/1999	6143252	11/7/2000	Reaction Device for Use with a Pipette Tip
4406		09/293659	4/16/1999	6245297	6/12/2001	Apparatus and Method for Transferring Small Volumes of Substances
4406	D1	09/846467	4/30/2001	6355487	3/12/2002	Apparatus and Method for Transferring Small Volumes of Substances
4407		09/256340	2/22/1999	6255476	7/3/2001	Methods and Compositions for Synthesis of Labelled Oligonucleotides and Analogs on Solid-Supports
4407	C1	09/813378	3/20/2001	6316610	11/13/2001	Labelled oligonucleotides synthesized on solid-supports
4409		09/204858	12/3/1998	6451525	9/17/2002	Parallel Sequencing Method
4410		09/251232	2/16/1999	6432719	8/13/2002	Matrix Storage and Dispensing System
4414		09/182946	10/29/1998	6159368	12/12/2000	Multi-well microfiltration apparatus
4414	D1	09/565566	5/4/2000	6338802	1/15/2002	Multi-well microfiltration apparatus
4414	D3	09/565673	5/4/2000	6451261	9/17/2002	Multi-well microfiltration apparatus
4419		09/232000	1/15/1999	6432642	8/13/2002	Binary Probe and Clamp Composition and Methods for Target Hybridization Detection
4435		09/247996	2/10/1999	6197513	3/6/2001	PNA and DNA Conjugates and Methods for Preparation Thereof

Case Number	Sub Case	Application Number	Filing Date	Patent Number	Issue Date	Title
4444		09/311079	5/13/1999	6331618	12/18/2001	Compositions of Solvents and High Concentrations of Nucleic Acid Analogs
4450		09/311036	5/13/1999	6326147	12/4/2001	Methods, Apparatus, Articles of Manufacture, and User Interfaces for Performing Automated Biological Assay Preparation and Macromolecule Purification
4457		09/303789	4/30/1999	6168701	1/2/2001	Methods and Compositions for Improving the Loading of Analytical Instuments
4477		09/610155	6/30/2000	6451588	9/17/2002	Multipartite High-Affinity Nucleic Acid Probes
4498		09/645959	8/24/2000	6358679	3/19/2002	Methods for External Controls for Nucleic Acid
4503	C2	07/871264	4/20/1992	5475610	12/12/1995	Automated Performance of PCR
4503	C3	08/569606	12/8/1995	5602756	2/11/1997	Automated Performance of PCR
4503	D1	08/198079	3/1/1994	5710381	1/20/1998	Automated Performance of PCR
4503	D3	08/422740	4/14/1995	6015534	1/18/2000	Automated Performance of PCR
4504		07/716719	11/12/1991	5224778	7/6/1993	Temperature Verification for Polymerase Chain Reaction Systems
4505	1A	07/494174	3/14/1990	5038852	8/13/1991	Apparatus and method for performing automated amplification of nucleic acid sequences and assays using heating and cooling steps
4505	B1	08/021624	2/22/1993	5333675	8/2/1994	Apparatus and method for performing automated amplification of nucleic acid sequences and assays using heating and cooling steps
4505	B2	08/199505	2/18/1994	5656493	8/12/1997	Apparatus and method for performing automated amplification of nucleic acid sequences and assays using heating and cooling steps
4506		08/002559	1/11/1993	5282543	2/1/1994	Cover For Array of Reaction Tubes

Case Number	Sub Case	Application Number	Filing Date	Patent Number	Issue Date	Title
4507		08/017721	2/16/1993	5364790	11/15/1994	In Situ PCR Amplification System
4507	D2	08/462926	6/5/1995	5675700	10/7/1997	In Situ PCR Amplification System
4507	D3	08/462925	6/5/1995	5527510	6/18/1996	In Situ PCR Amplification System
4507	I1	08/525321	9/8/1995	5681741	10/28/1997	In Situ PCR Amplification System
4510	C1	08/299033	8/31/1994	5720923	2/24/1998	Nucleic Acid Amplification Reaction Apparatus and Method
4510	D1	08/823735	3/25/1997	5827480	10/27/1998	Nucleic Acid Amplification Reaction Apparatus and Method
4510	D2	08/827353	3/26/1997	5779977	7/14/1998	Nucleic Acid Amplification Reaction Apparatus and Method
4510	D3	09/027989	2/23/1998	6033880	3/7/2000	Nucleic Acid Amplification Reaction Apparatus and Method
4511		08/221163	3/31/1994	5480783	1/2/1996	Method for Reducing Background Signals In DNA Replication Detection Signal
4512		08/255507	6/8/1994	5766889	6/16/1998	Apparatus and Method for Determining the Characteristics of the Concentration Growth of Target Nucleic Acid Molecules in a Polymerase Chain Reaction Sample
4513		08/316299	9/30/1994	5456360	10/10/1995	Holder Assembly For Reaction Tubes
4541		09/493056	1/27/2000	6333501	12/25/2001	Methods, Apparatus, and Articles of Manufacture for Performing Spectral Calibration
4601		09/704966	11/1/2000	6448407	9/10/2002	Atropisomers of asymmetric xanthene fluorescent dyes and methods of DNA
4609		09/826854	4/6/2001	6426215	7/30/2002	PCR Plate Cover and Maintaining Device
4749		08/230766	4/21/1994	5514789	5/7/1996	Recovery of Oligonucleotides by Gas Phase Cleavage
4749	D1	08/602211	2/15/1996	5738829	4/14/1998	Recovery of Oligonucleotides by Gas Phase Cleavage

Case Number	Sub Case	Application Number	Filing Date	Patent Number	Issue Date	Title
4818		08/330790	10/28/1994	5629178	5/13/1997	Method for enhancing amplification in the polymerase chain reaction employing peptide nucleic acid (PNA)
4818	I1	08/468658	6/6/1995	5656461	8/12/1997	Method for enhancing amplification in the polymerase chain reaction employing peptide nucleic acid (PNA)
8001	C1	440571	11/10/1982	4704256	11/3/1987	Improved Apparatus and Method for the Sequential...
8001	D1	602516	4/20/1984	4603114	7/29/1986	Improved Apparatus and Method for the Sequential...
8001	D2	602699	4/23/1984	4610847	9/9/1986	Improved Apparatus and Method for the Sequential...
8002		106828	12/26/1979	4252769	2/24/1981	Apparatus for the Performance of Chemical Processes
9212		23954	3/26/1979	4313828	2/2/1982	High pressure tubing coupler
9213		06/258404	4/28/1981	4347131	8/31/1982	Liquid chromatographic pump module
9214		06/354395	3/3/1982	4451364	5/29/1984	High Pressure Seal and Coupling
9276		354394	3/3/1982	4451363	5/29/1984	Cartridge for Liquid Chromatography
9350		392896	6/28/1982	RE31974	8/27/1985	Cartridge type separation column and holder assembly for liquid chromatographs
9351		06/116466	1/29/1980	4283280	8/11/1981	Cartridge type separation column and holder assembly for liquid chromatographs
PABI-999		07/156285	2/16/1988	4848904	7/18/1989	Dual Beam Multichannel Spectrophotomer With a Unique Logarithmic Data Converter
PD011		684178	5/7/1976	4065412	12/27/1977	Peptide or protein sequencing method and apparatus

ASSIGNMENT AND ASSUMPTION AGREEMENT

This ASSIGNMENT AND ASSUMPTION AGREEMENT ("Agreement") is made as of the 28th day of June, 2002, between Applera Corporation, a Delaware corporation ("Assignee"), and PE Corporation (NY), a New York corporation and a wholly owned subsidiary of Assignee ("Assignor").

WHEREAS, Assignor and Assignee have entered into an Agreement and Plan of Liquidation (the "Plan") pursuant to which Assignee and Assignor have agreed to liquidate Assignor by transferring all of its assets, subject to all of its liabilities, to Assignee.

NOW, THEREFORE, in furtherance of the Plan, the parties hereto agree as follows:

1. Assignment of Assets and Business. Subject to Section 3 below, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, including, without limitation, Assignee's assumption of Assignor's Liabilities pursuant to Section 2 hereof, Assignor hereby conveys, transfers, assigns and delivers to Assignee, effective as of the close of the Company's business, but no later than 11:59 p.m., on the date hereof (the "**Effective Time**"), all of the assets of Assignor (the "Assets"), and Assignee hereby accepts the foregoing assignment of the Assets. Any proceeds, including cash or other property, received by the Assignor after the Effective Time in respect of the Assets or the associated business shall be for the account of Assignee and shall be paid or transferred over to the Assignee promptly upon receipt thereof. For these purposes, the term "Assets" includes, without limitation, all of the Assignor's:

(a) tangible assets such as equipment, computer hardware, furniture, supplies, and inventory;

(b) rights under all contracts to which Assignor is a party or by which it is bound ("Assigned Contracts") (including rights to sue for and recover damages for prior third party breaches);

(c) accounts receivable;

(d) intellectual property rights including patents, trademarks and copyrights (and applications for any of them), and discoveries, inventions, know how and trade secrets, including Assignor's full right to sue for and recover damages recoverable from prior infringements of such intellectual property;

(e) goodwill associated with its proprietary marks and its business;

(f) rights under governmental permits to the extent transferable;

(g) warranty rights against manufacturers or suppliers;

(h) customer and supplier lists; and

(i) other property or rights relating thereto of any kind or nature.

2. Assumption of Liabilities. Subject to Section 3 below, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, including, without limitation, Assignor's transfer of its Assets pursuant to Section 1 hereof, effective as of the Effective Time, Assignor hereby assigns to Assignee, and Assignee hereby assumes and agrees to perform, all of the liabilities of Assignor (the "Liabilities"). For these purposes, the term "Liabilities" includes all of the Assignor's liabilities and obligations (whether absolute, accrued, contingent or otherwise) of any nature whatsoever including obligations under all Assigned Contracts.

3. Restrictions on Transfer.

(a) Third Party Limitations. To the extent that any Asset is not capable of being conveyed, transferred, assigned and delivered by the Assignor to the Assignee as contemplated by Section 1 above (a "Restricted Asset") or any Liability cannot be assigned by the Assignor and assumed by the Assignee as contemplated by Section 2 above (a "Restricted Liability") due to a Third Party Limitation (as defined below), this Agreement shall not constitute an assignment and/or assumption thereof unless and until such Third Party Limitation is no longer applicable. Each of the Assignor and Assignee shall use commercially reasonable efforts to remove such Third Party Limitations as soon as practicable after the execution and delivery of this Agreement. For these purposes, a "Third Party Limitation" means the existence of any of the following as of the Effective Time with respect to any Asset or Liability: (i) any unfulfilled contractual requirement that notice to or consent of a third party is required prior to the assignment and/or assumption thereof, (ii) any unfulfilled contractual requirement that the Assignee enter into certain agreements with third parties (for example, providing for Assignee's express assumption of obligations for the benefit of such third parties) prior to the assignment and/or assumption thereof, and (iii) any unfulfilled legal requirement (including requirements under applicable laws, regulations, court rules, judgments, and the like) that notice to or consent of a third party, including any governmental entity, or other process is required prior to the assignment and/or assumption thereof.

(b) Arrangements Regarding Restricted Assets and Liabilities. Section 3(a) notwithstanding, following the Effective Time, the Assignor and the Assignee shall cooperate with each other with respect to Restricted Assets and Restricted Liabilities such that as between them (i) the benefit of such Restricted Assets shall beneficially, though not

legally, transfer to the Assignee as of the Effective Time, and (ii) the burden of the Restricted Liabilities shall beneficially, though not legally, transfer to and be borne by the Assignee as of the Effective Time. In this regard, the Assignor and the Assignee agree to the following regarding Assigned Contracts that constitute Restricted Assets and/or Restricted Liabilities ("Restricted Contracts"):

(A) General. The Assignor shall keep the Assignee regularly informed of all matters relating to Restricted Contracts, and without limitation shall promptly (x) provide Assignee with copies of all notices or other written communications relating to Restricted Contracts, and (y) notify Assignee of the nature of all oral communications relating to Restricted Contracts. The Assignor shall consult with the Assignee with respect to all matters relating to Restricted Contracts, and shall act in accordance with instructions from the Assignee with respect thereto. The Assignor shall enforce, at the request and cost of the Assignee for the account of the Assignee, any rights of the Assignor arising from any such Restricted Contract.

(B) Performance by Assignor. The Assignor and the Assignee shall establish, to the extent practicable, arrangements for purposes of performance by the Assignor under Restricted Contracts. For example, the Assignor might subcontract performance to the Assignee, or the Assignee might lease or license the necessary Assets and personnel to the Assignor. Such procedures shall be commercially reasonable, consistent with the terms and conditions of the applicable Restricted Contracts, and in compliance with applicable law.

(C) Receivables. All cash or other property received by the Assignor in respect of performance under Restricted Contracts shall be for the account of Assignee and shall be paid or transferred over to the Assignee promptly upon receipt thereof.

5. Additional Transfer Documents. From time to time on or after the date hereof: (a) upon the request of Assignee, Assignor shall promptly execute and deliver to Assignee such other transfer documents, bills of sale, assignments or other instruments (including instruments necessary for filing with governmental authorities such as patent or trademark instruments), as Assignee deems necessary or appropriate to convey, transfer, assign and deliver to Assignee all right, title and interest in and to the Assets described in Section 1 above as and when provided for herein, and (b) upon the request of Assignor, Assignee shall promptly execute and deliver to Assignor such other documents or other instruments (including instruments necessary for filing with governmental authorities such as patent or trademark instruments) as Assignor deems necessary or appropriate to give effect to the assumption of Liabilities described in Section 2 above as and when provided for herein.

6. Parties in Interest. Nothing in this Agreement, whether express or implied, is intended to confer any rights or remedies under or by reason of this Agreement on any persons or entities other than the parties to it and their respective successors and assigns, nor is anything in this Agreement intended to relieve or discharge the obligations or liabilities of any third persons or entities which are not a party to this Agreement, nor shall any provision of this Agreement give any third persons or entities any rights of subrogation or action over or against any party to this Agreement.

7. Entire Agreement. This Agreement constitutes the entire agreement between the parties with respect to the subject matter hereof, supersedes all prior and contemporaneous agreements, representations and understandings of the parties with respect thereto, and may not be modified, amended or otherwise changed in any manner except by a writing executed by a duly authorized representative of the party to be charged.

8. Counterparts; Further Assurances. This Agreement may be executed in counterparts and by the parties in separate counterparts, each of which shall be deemed an original and all of which together shall constitute one in the same instrument. The parties agree to execute such documents, stock powers and instruments of assignment and assumption and take such other actions as may be necessary or expedient to carry out the transactions contemplated by this Agreement.

9. Miscellaneous. Headings are included for reference purposes and shall not affect interpretation of this Agreement. As used in this Agreement, the phrase "including" shall in each case be read to mean "including, without limitation," unless expressly provided for otherwise. This Agreement shall be governed by the laws of the State of New York without regard to its principles of conflicts or choice of law which would provide for a different governing law.

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IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date and year first above set forth.

Applera Corporation

By:_____
Name: Thomas P. Livingston
Title: Secretary

PE Corporation (NY)

By:_____
Name: Thomas P. Livingston
Title: Secretary