PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Elitech Holding B.V.	12/08/2009

RECEIVING PARTY DATA

Name:	Gamida For Life, B.V.
Street Address:	Marten Meesweg 51
City:	Rotterdamn
State/Country:	NETHERLANDS
Postal Code:	NL-3068

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6706473

CH $40.00 6706473

CORRESPONDENCE DATA

Fax Number: (212)391-0525
Phone: 212-278-0400
Email: jwhite@cooperdunham.com
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.
Correspondent Name: Cooper & Dunham LLP
Address Line 1: 30 Rockefeller Plaza
Address Line 2: 20th Floor
Address Line 4: New York, NEW YORK 10112

ATTORNEY DOCKET NUMBER:	0031/83689/JPW/AK
NAME OF SUBMITTER:	Cindy Shu

Total Attachments: 18
source=120113_0031_83689_Assignment_2_GJC_Page_01#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_02#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_03#page1.tif

source=120113_0031_83689_Assignment_2_GJC_Page_04#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_05#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_06#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_07#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_08#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_09#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_10#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_11#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_12#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_13#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_14#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_15#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_16#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_17#page1.tif
source=120113_0031_83689_Assignment_2_GJC_Page_18#page1.tif

EXECUTION COPY

PATENT ASSIGNMENT AGREEMENT

This Patent Assignment Agreement (the "Agreement") is made effective as of December 8, 2009, by and among Elitech Holding B.V., a corporation organized and existing under the laws of The Netherlands/Wescor, Inc., a Utah corporation ("Assignor") and GAMIDA FOR LIFE, B.V., an entity formed under the laws of the Netherlands ("Assignee").

PRELIMINARY STATEMENTS

A. Pursuant to that certain Purchase Agreement (the "Purchase Agreement") dated as of December 8, 2009, by and among Assignor, Assignee, and Wescor, Inc., a Utah corporation/ Elitech Holding B.V., a corporation organized and existing under the laws of The Netherlands, Assignor has agreed to transfer and assign unto Assignee all of Assignor's right, title and interest in and to certain assets and contracts of Assignor, and Assignee has agreed to assume certain obligations of Assignor.

B. Pursuant to the terms and conditions of the Purchase Agreement, Assignor desires to transfer and assign to Assignee, and Assignee desires to accept the transfer and assignment of, its right, title and interest in and to those patents and applications (the "Patents") listed on Exhibit 1 attached hereto and incorporated by reference, including all divisionals, renewals, substitutes, continuations, continuations-in-part, reexaminations, reissues, extensions, and convention applications or patents based upon such Patents, and any and all letters patent that may issue thereon.

C. Capitalized terms not otherwise defined in this Agreement shall have the respective meanings ascribed to them in the Purchase Agreement.

AGREEMENT

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor does hereby assign, sell, transfer, convey, and deliver to Assignee and its successors and assigns Assignor's entire right, title, and interest in, to, and under the Patents in the United States and all jurisdictions outside the United States, including the right to apply for letters patent in any and all such jurisdictions based on said Patents, and including all divisionals, renewals, substitutes, continuations, continuations-in-part, reexaminations, reissues, extensions, and convention applications or patents based upon such Patents, and any and all letters patent that may issue thereon, in any and all such jurisdictions, to the full end of the term or terms for which said letters patent may be issued, and every priority right that may be predicated upon the foregoing, the same to be held and enjoyed by Assignee for its own use and benefit and for the use and benefit of its successors and assigns to be used as fully and entirely as said rights would have been held and enjoyed by Assignor if this assignment had not been made.

IN WITNESS WHEREOF, the parties to this Agreement have caused this Agreement to be duly executed as of the date first written above.

ASSIGNOR:

ELITECH HOLDING BV
a Netherlands company

OR

WESCOR, INC
a Utah corporation

By: _____
_____, President

ASSIGNEE:

GAMIDA FOR LIFE, B. V.
an entity formed under the laws of the Netherlands

By: _____
C. Langhorst
Director

P. Glynn
Director

5637909v.1

First Schedule - Patents

	Title	App/Patent No.	Filing/Issuance Dates	Status	Source
MicroArray					
	ACTIVE PROGRAMMABLE ELECTRNONIC MATRIX				
141	101US Active Programmable Electronic Devices for Molecular biological Analysis and Diagnostics	US 5,605,662	Filed 11/1/93 Issued 2/25/97	Granted	Nanogen O'Melveny
142	101D2CA Method for Electronic Assembly of Nanoparticles	CA 2,504,343	Filed 5/9/05	Abandoned	Nanogen O'Melveny
143	101EP Self-Addressable Self-Assembling Microelectronic Systems and Devices for Molecular Biological Analysis and Diagnostics	EP 0727045	Filed 10/26/94 Issued 12/19/01	Granted- Spain, France, UK, Italy, Sweden	Nanogen O'Melveny
144	101C1US Method for Electronic Synthesis of Polymers	US 5,929,208	Filed 10/4/96 Issued 7/27/99	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
145	102US Methods for Electronic Stringency Control for Molecular Biological Analysis and Diagnostics	US 6,017,696	Filed 7/7/94 Issued 1/25/00	Granted	Nanogen O'Melveny
146	102AU Self-Addressable Self Assembling Microelectronic Systems and Devices for Molecular Biological Analysis and Diagnostics	AU 708677	Filed 7/5/95 Issued 1/25/99	Abandoned NC Granted	Nanogen O'Melveny
147	102D1AUSelf-Addressable Self Assembling Microelectronic Systems and Devices for Molecular Biological Analysis and Diagnostics	AU 746974	Filed 10/21/99 Issued 8/22/02	Abandoned NC Granted	Nanogen O'Melveny
148	102CA Self-Addressable Self-Assembling Microelectronic Systems and Devices for	CA 2,169,852	Filed 7/5/95 Issued 9/23/08	Granted	Nanogen O'Melveny

	Molecular Biological Analysis and Diagnostics				
149	102GB Self-Addressable Self-Assembling Microelectronic Systems and Devices for Molecular Biological Analysis and Diagnostics	GB 0717749	Filed 7/5/95 Issued	Granted	Nanogen O'Melveny
150	102C1US Methods for Transport in Molecular Biological Analysis and Diagnostics	US 6,238,624	Fled 10/4/96 Issued 5/29/01	Granted	Nanogen O'Melveny
151	102C2US Methods for Electronically-Controlled Enzymatic Reactions	US 7,172,864	Filed 11/24/00 Issued 2/6/07	Granted	Nanogen O'Melveny
152	102C5US Self-Addressable Self Assembling Microelectronic Systems and Devices for Molecular Biological Analysis and Diagnostics	US 11/702,353	Filed 2/5/07	Pending	Nanogen O'Melveny
153	101C2US Self-Addressable Self Assembling Microelectronic Systems and Devices for Molecular Biological Analysis and Diagnostics	US 7,314,708	Filed 8/4/98 Issued 1/1/08	Granted	Nanogen O'Melveny
154	101C3US Methods for Electronic Synthesis of Polymers	US 09/358,788	Filed 7/22/99	Pending	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
155	101C4US Self-Addressable Self Assembling Microelectronic Systems and Devices for Molecular Biological Analysis and Diagnostics	US 11/963,317	Filed 12/21/07	Pending	Nanogen O'Melveny
156	103US Molecular Biological Diagnostic Systems Including Electrodes	US 5,632,957	Filed 9/9/94 Issued 5/27/97	Granted	Nanogen O'Melveny
157	103AU Automated Molecular Biological Diagnostic System	AU 702773	Filed 9/6/95 Issued 6/17/99	Granted	Nanogen O'Melveny
158	103EP Automated Molecular Biological Diagnostic System	EP0871888	Filed 9/6/95 Issued 7/10/02	Granted-Germany	Nanogen O'Melveny
159	103C1US Control System for Active Programmable Electronic Microbiology System	US 6,582,660	Fled 5/20/97 Issued 6/24/03	Granted	Nanogen O'Melveny

160	104US Methods for Hybridization Analysis Utilizing Electrically Controlled Hybridization	US 5,849,486	Filed 9/27/95 Issued 12/15/98	Granted	Nanogen O'Melveny
161	104AU Methods for Hybridization Analysis Utilizing Electrically Controlled Hybridization	AU 723134	Filed 9/6/96 Issued 11/30/00	Granted	Nanogen O'Melveny
162	104C1 Methods for Fingerprinting Utilizing an Electronically Addressable Array	US 6,245,508	Filed 8/27/98 Issued 6/12/01	Abandoned NC Granted	Nanogen O'Melveny
163	104C2US Apparatus for Active Programmable Matrix Devices	US 7,101,661	Filed 6/20/00 Issued 9/5/06	Granted	Nanogen O'Melveny
164	104C3US Apparatus and Methods for Active Programmable Matrix Devices	US 11/505,679 US-2007-0054299-A1	Filed 8/17/06	Published	Nanogen O'Melveny
165	105US Methods for Electronic Fluorescent Perturbation for Analysis and Electronic Perturbation Catalysis for Synthesis	US 6,048,690	Filed 5/14/97 Issued 4/11/00	Granted	Nanogen O'Melveny
166	105C3US Methods for Electronic Fluorescent Perturbation for Sequence Analysis	US-2007-0055453-A1	Filed 12/08/05	Abandoned Published	Nanogen O'Melveny
167	106US Methods and Procedures for Molecular Biological Analysis and Diagnostics	US 6,051,380	Filed 12/5/97 Issued 4/18/00	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
168	106HK Self-Addressable Self-Assembling Microelectronic Integrated Systems, Component Devices, Mechanisms, Methods and Procedures for Molecular Biological Analysis and Diagnostics	HK 1034519	Filed 12/01/98 Issued 12/22/06	Abandon in due course Granted	Nanogen O'Melveny
169	106C1US Method for Enhancing the Hybridization Efficiency of Target Nucleic Acids Using a Self-Addressable, Self-Assembling Microelectronic Device	US 6,518,022	Filed 11/22/99 Issued 2/11/03	Granted	Nanogen O'Melveny
170	106C3US Self-Addressable Self-Assembling Microelectronic Integrated Systems,	US 11/726,520 US-2007-0178516-A1	Filed 3/22/07	Published	Nanogen O'Melveny

	Component Devices, Mechanisms, Methods and Procedures for Molecular Biological Analysis and Diagnostics				
171	107US Electronic Systems, Component Devices, Mechanisms, Methods, and Procedures for Macroscopic and Microscopic Molecular Biological Reactions, Analyses and Diagnostics	US 6,780,584	Filed 9/27/00 Issued 8/24/04	Granted	Nanogen O'Melveny
172	107D1US Electronic Systems and Component Devices for Macroscopic and Microscopic Molecular biological Reaction, Analyses, and Diagnostics	US 7,300,757	Filed 8/23/04 Issued 11/27/07	Granted	Nanogen O'Melveny
	PHOTONICS				
173	220C1US Self-Organizing Molecular Photonic Structures Based on Chromophore-and-Fluorophore-Containing Polynucleotides and Methods of Their Use	US 5,532,129	Filed 5/27/94 Issued 7/2/96	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
174	221US Hybridization of Polynucleotides Conjugated with Chromophores and Fluorophores to Generate Donor-to-Donor Energy Transfer System	US 5,565,322	Filed 5/5/94 Issued 10/15/96	Granted	Nanogen O'Melveny
175	221C1US Hybridization of Polynucleotides Conjugated with Chromophores and Fluorophores to Generate Donor-to-Donor Energy Transfer System	US 5,849,489	Filed 8/23/96 Issued 12/15/98	Granted	Nanogen O'Melveny
176	221C2US Hybridization of Polynucleotides Conjugated with Chromophores and Fluorophores to Generate Donor-to-Donor	US 6,162,603	Filed 7/28/98 Issued 12/19/00	Granted	Nanogen O'Melveny

	Energy Transfer System				
177	221C3US Hybridization of Polynucleotides Conjugated with Chromophores and Fluorophores to Generate Donor-to-Donor Energy Transfer System	US 6,416,953	Filed 11/28/00 Issued 7/9/02	Granted	Nanogen O'Melveny
178	221C4US Hybridization of Polynucleotides Conjugated with Chromophores and Fluorophores to Generate Donor-to-Donor Energy Transfer System	US 6,911,310	Filed 10/9/01 Issued 6/28/05	Granted	Nanogen O'Melveny
179	221C5US Hybridization of Polynucleotides Conjugated with Chromophores and Fluorophores to Generate Donor-to-Donor Energy Transfer System	US 11/170,514	Filed 6/28/05	Pending	Nanogen O'Melveny
180	220EP Hybridization of Polynucleotides Conjugated with Chromophores and Fluorophores to Generate Donor-to-Donor Energy Transfer System	EP0620822	Filed 11/6/92 Issued 5/30/01	Granted- Germany, Spain, France, UK, Italy, Neth, Sweden	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
	SAMPLE PREPARATION				
181	230US Apparatus and Methods for Active Biological Sample Preparation	US 6,129,828	Filed 9/6/96 Issued 10/10/00	Abandoned NC Granted	Nanogen O'Melveny
182	230D1US Apparatus for Active Biological Sample Preparation	US 6,824,740	Filed 4/28/00 Issued 11/30/04	Granted	Nanogen O'Melveny
183	231US Channel-Less Separation of Bioparticles on a Bioelectronic Chip by Dielectrophoresis	US 6,071,394	Filed 1/30/98 Issued 6/6/00	Granted	Nanogen O'Melveny
184	231CA Channel-Less Separation of Bioparticles on a Bioelectronic Chip by Dielectrophoresis	CA 2319705	Filed 7/28/00 Issued 7/15/08	Granted	Nanogen O'Melveny
185	231EP Channel-Less Separation of Bioparticles on a Bioelectronic Chip by Dielectrophoresis	EP 1053055	Filed 1/26/99 Issued 7/30/03	Abandoned, NC Granted,	Nanogen O'Melveny

				UK	
186	231C1US Channel-Less Separation of Bioparticles on a Bioelectronic Chip by Dielectrophoresis	US 6,280,590	Filed 4/13/00 Issued 8/28/01	Granted	Nanogen O'Melveny
187	231C2US Channel-Less Separation of Bioparticles on a Bioelectronic Chip by Dielectrophoresis	US 6,989,086	Filed 7/13/01 Issued 1/24/06	Granted	Nanogen O'Melveny
188	232US Dialectrophoretic Separation and Immunoassay Methods on Active Electronic Matrix Devices	US 6,887,362	Filed 2/6/02 Issued 5/3/05	Granted	Nanogen O'Melveny
189	233US Three Dimensional Dielectrophoretic Separator and Methods of Use	US 2007-0187248-A1	Filed 12/12/06	Published	Nanogen O'Melveny
190	240JP Methods and Materials for Optimization of Electronic Hybridization Reactions	JP 4213216	Filed 8/18/97 Issued 11/7/08	Granted to 8/18/2017	Nanogen O'Melveny
191	241US Methods and Materials for Optimization of Electronic Transportation and Hybridization Reactions	US 7,314,542	Filed 1/1/98 Issued 3/30/06	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
192	241JP Methods and Materials for Optimization of Electronic Transportation and Hybridization Reactions	JP 2007-533704	Filed 9/23/05	Pending	Nanogen O'Melveny
	FIRST GENERATION MICRO-ARRAY DEVICES				
193	250US Multiplexed Active Biologic Array	US 5,965,452	Filed 7/9/96 Issued 10/12/99	Granted	Nanogen O'Melveny
194	250CN Multiplexed Active Biologic Array	CN 97196197.2	Filed 06/24/97 Issued 05/05/04	Abandoned NC Granted	Nanogen O'Melveny
195	250KR Multiplexed Active Biologic Array	KR 545275	Filed 6/24/97 Issued	Abandoned NC Granted	Nanogen O'Melveny

196	250NZ Multiplexed Active Biologic Array	NZ 333947	Filed 6/24/97 Issued 3/8/01	Abandoned NC Granted	Nanogen O'Melveny
197	250C1US Multiplexed Active Biologic Array	US 6,258,606	Filed 7/30/99 Issued 7/10/01	Granted	Nanogen O'Melveny
198	250C2US Addressable Biologic Electrode Array	US 6,682,936	Filed 7/10/01 Issued 1/27/04	Granted	Nanogen O'Melveny
199	250C3US Multiplexed Active Biologic Array	US 6,867,048	Filed 5/7/02 Issued 3/15/05	Granted	Nanogen O'Melveny
200	250C4US Biologic Electrode Array with Integrated Optical Detector	US 7,045,097	Filed 5/7/02 Issued 5/16/06	Granted	Nanogen O'Melveny
201	250C5US Addressable Biologic Electrode Array	US 7,101,717	Filed 1/23/04 Issued 9/5/06	Granted	Nanogen O'Melveny
202	250C6US Multiplexed Active Biologic Array	US 7,150,997	Filed 3/15/05 Issued 12/19/06	Granted	Nanogen O'Melveny
203	250C7US Multiplexed Active Biologic Array	US 11/639,688 US-2007-0095671-A1	Filed 12/15/06	Allowed	Nanogen O'Melveny
204	251US Advanced Active Electronic Devices for Molecular Biological Analysis and Diagnostics	US 6,099,803	Fled 2/20/98 Issued 8/8/00	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
205	251C1US Electronic Device for Performing Active Biological Operations and Methods of Using Same	US 6,726,880	Filed 6/16/00 Issued 4/27/04	Granted	Nanogen O'Melveny
206	252US Advanced Active Electronic Devices Including Collection Electrodes for Molecular Biological Analysis and Diagnostics	US 6,225,059	Filed 1/29/00 Issued 5/1/01	Granted	Nanogen O'Melveny
207	253US Multicomponent Devices for Molecular Biological Analysis and Diagnostics	US 6,068,818	Filed 1/29/99 Issued 5/30/00	Granted	Nanogen O'Melveny
208	253C1US Multicomponent Devices for Molecular Biological Analysis and Diagnostics	US 6,540,961	Filed 3/21/00 Issued 4/1/03	Granted	Nanogen O'Melveny

209	254US Method for Fabricating Multi-Component Devices for Molecular Biological Analysis and Diagnostics	US 6,254,827	Fled 1/29/99 Issued 7/3/01	Granted	Nanogen O'Melveny
210	255US Devices for Molecular Biological Analysis and Diagnostics Including Waveguides	US 6,315,953	Filed 1/29/99 Issued 11/13/01	Granted	Nanogen O'Melveny
211	255C1US Devices for Molecular Biological Analysis and Diagnostics Including Waveguides	US 6,821,729	Filed 9/12/01 Issued 11/23/04	Granted	Nanogen O'Melveny
212	256US Advanced Active Circuits and Devices for Molecular Biological Analysis and Diagnostics	US 6,331,274	Filed 1/29/99 Issued 12/18/01	Granted	Nanogen O'Melveny
213	256AU Advanced Active Devices and Methods for Molecular Biological Analysis and Diagnostics	AU 742960	Filed 02/11/99 Issued 5/2/02	Abandoned NC Granted	Nanogen O'Melveny
214	256D1US Systems and Methods for the Active Electronic Control of Biological Reactions	US 7,425,308	Filed 5/4/01 Issued 9/16/08	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
215	256D2US Circuits for the Control of Output Current in an Electronic Device for Performing Active Biological Operations	US 7,241,419	Filed 5/4/01 Issued 7/10/07	Granted	Nanogen O'Melveny
216	256D2C1US Circuits for the Control of Output Current in an Electronic Device for Performing Active Biological Operations	US 11/775,724 US-2008-0019872-A1	Filed 7/10/07	Published	Nanogen O'Melveny
	SECOND GENERATION MICRO-ARRAY DEVICES				
217	260US Programmable Multiplexed Active Biologic Array	US 7,267,751	Filed 8/20/02 Granted 9/11/07	Granted	Nanogen O'Melveny
218	260C1US Programmable Multiplexed Active	US 2008-0110755A1	Filed 9/10/07	Published	Nanogen

	Biologic Array				O'Melveny
		ANCILLARY DEVICES			
219	270US Scanning Optical Detection System	US 6,309,601	Filed 5/1/97 Issued 10/30/01	Abandoned Granted	Nanogen O'Melveny
220	271US Laminated Assembly for Active Bioelectronic Device	US 6,287,517	Filed 12/4/96 Issued 9/11/01	Granted	Nanogen O'Melveny
221	271C1US Laminated Assembly for Active Bioelectronic Device	US 6,423,271	Filed 3/16/00 Issued 7/23/02	Granted	Nanogen O'Melveny
222	272US Stacked, Reconfigurable Microlaboratory	US 6,309,602	Filed 12/2/98 Issued 10/30/01	Abandoned, Granted	Nanogen O'Melveny
223	273US Electrophoretic Buss for Transport of Charged Materials in a Multi-Chamber System	US 6,375,899	Filed 12/2/98 Issued 4/23/02	Granted	Nanogen O'Melveny
224	274US System Including Functionally Separated Regions in Electrophoretic System	US 6,319,472	Filed 12/2/98 Issued 11/20/01	Abandoned Granted	Nanogen O'Melveny
225	275US Apparatus and Method for Real-time Configuration and Analysis in Detection System	US 6,638,482	Filed 12/2/98 Issued 10/28/03	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
226	276US Integrated Portable Biological Detection System	US 6,403,367	Filed 12/22/99 Issued 6/11/02	Granted	Nanogen O'Melveny
227	276C1US Integrated Portable Biological Detection System	US 7,172,896	Filed 6/5/02 Issued 2/6/07	Granted	Nanogen O'Melveny
228	276C2US Integrated Portable Biological Detection System	US2008-0047832-A1	Filed 2/5/07	Published	Nanogen O'Melveny
229	276AU Integrated Portable Biological Detection System	AU 2590/00	Filed 12/22/99 Issued	Abandoned NC Granted	Nanogen O'Melveny
230	276NZ Integrated Portable Biological Detection System	NZ 512087	Filed 12/22/99 Issued 9/8/03	Abandoned NC Granted	Nanogen O'Melveny

PERMEATION LAYERS					
231	280US Inorganic Permeation Layer for Micro-Electric Device	US 6,306,348	Filed 7/15/99 Issued 10/23/01	Abandoned Granted	Nanogen O'Melveny
232	280AU Inorganic permeation Layer for Micro-Electric Devide	AU 769715	Filed 1/30/02 Issued 5/20/04	Abandoned NC Granted	Nanogen O'Melveny
233	281US Biomolecular Attachment Sites on Microelectronic Arrays and Methods Thereof	US 09/410,368	Filed 9/30/99	Abandoned Pending	Nanogen O'Melveny
234	281C1US Biomolecular Attachment Sites on Microelectronic Arrays and Methods Thereof	US 11/777,919 US-2009-0069198-A1	Filed 7/13/07	Published	Nanogen O'Melveny
235	281JP Biomolecular Attachment Sites on Microelectronic Arrays and Methods Thereof	JP 2001-526285	Filed 4/1/02	Pending	Nanogen O'Melveny
236	282US Methods for Molding and Grafting Highly Uniform Polymer Layers onto Electronic Microchips	US 6,524,517	Filed 12/15/99 Issued 2/25/03	Granted	Nanogen O'Melveny
237	283US Permeation Layer Attachment Chemistry and Method	US 6,303,082	Filed 12/15/99 Issued 10/16/01	Granted	Nanogen O'Melveny
238	283AU Permeation Layer Attachment Chemistry and Method	AU 43025/01	Filed 6/25/02 Issued 1/20/05	Abandoned NC Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
239	283D1US Platinum Silicide Permeation Layer Attachment Chemistry and Method	US 6,838,053	Filed 8/3/01 Issued 1/4/05	Granted	Nanogen O'Melveny
240	284US Mesoporous Permeation Layers for Use on Active Electronic Matrix Devices	US 6,960,298	Filed 12/10/01 Issued 11/1/05	Granted	Nanogen O'Melveny
241	284C1USMesoporous Permeation Layers for Use on Active Electronic Matrix Devices	US 7,270,850	Filed 3/16/05 Issued 9/18/07	Granted	Nanogen O'Melveny
242	284C2US Mesoporous Permeation Layers for Use on Active Electronic Matrix Devices	US 11/855,374 US 2008-0063794-A1	Filed 9/14/07	Allowed	Nanogen O'Melveny
243	286US Compositions and Methods for Preserving Permeation Layers for Use on	US 11/846,187 US 2008-00699962-A1	Filed 8/28/07	Published	Nanogen O'Melveny

	Active Electronic Matrix Devices				
244	286PCT Compositions and Methods for Preserving Permeation Layers for Use on Active Electronic Matrix Devices	PCT/US07/77188	Filed 8/30/07	Abandoned Pending	Nanogen O'Melveny
SINGLE TANDEM REPEATS					
245	300US Methods and Apparatus for Determination of Length Polymorphisms in DNA	US 6,207,373	Filed 2/25/98 Issued 3/27/01	Granted	Nanogen O'Melveny
246	300EP Methods and Apparatus for Determination of Length Polymorphisms in DNA	EP 1056887	Filed 08/25/00 Issued 05/31/06	Granted, France, Germany, Italy	Nanogen O'Melveny
247	300C1US Methods and Apparatus for Determination of Length Polymorphisms in DNA	US 6,395,493	Filed 8/24/00 Issued 5/28/02	Granted	Nanogen O'Melveny
248	300C2US Methods and Apparatus for Determination of Length Polymorphisms in DNA	US 6,753,148	Fled 2/28/02 Issued 6/22/04	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
SINGLE NUCLEOTIDE POLYMORPHISMS					
249	312US Methods for Determination of Single Nucleic Acid Polymorphisms Using a Bioelectronic Microchip	US 6,468,742	Filed 4/12/99 Issued 10/22/02	Granted	Nanogen O'Melveny
250	312AU Methods for Determination of Single Nucleic Acid Polymorphisms Using a Bioelectronic Microchip	AU 769929	Filed 3/28/00 Issued	Abandoned NC Granted	Nanogen O'Melveny
251	312C1US Methods for Determination of Single Nucleic Acid Polymorphisms Using a Bioelectronic Microchip	US 2003-0073122-A1	Filed 9/16/02	Pending	Nanogen O'Melveny

252	313C2US Methods and Apparatus for Screening and Detecting Multiple Genetic Mutations	US 10/627,950	Filed 7/24/03	Allowed	Nanogen O'Melveny
	GENE EXPRESSION				
253	320US Improved Methods for Gene Expression Monitoring on Electronic Microarrays	US 6,379,897	Filed 11/9/00 Issued 4/30/02	Granted	Nanogen O'Melveny
254	320D2US Improved Quantitative Analysis Methods on Active Electronic Mocroarrays	US 6,492,122	Filed 10/10/01 Issued 12/10/02	Granted	Nanogen O'Melveny
	STRAND DISPLACEMENT AMPLIFICATION				
255	331US Anchored Strand Displacement Amplification on an Electronically Addressable Microchip	US 6,531,302	Filed 4/12/99 Issued 3/11/03	Will let go abandoned but granted till 5/12/10	Nanogen O'Melveny
256	332US Electronically Mediated Nucleic Acid Amplification in Nasba	US 6,326,173	Filed 4/12/99 Issued 12/4/01	Abandoned Granted	Nanogen O'Melveny
257	332C1US Electronically Mediated Nucleic Acid Amplification in NASBA	US 7,070,961	Filed 10/9/01 Issued 7/4/06	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
258	333US Multiplex Amplification and Separation of Nucleic Acid Sequences Using Ligation-Dependant Strand Displacement Amplification and Bioelectronic Chip Technology	US 6,238,868	Filed 4/12/99 Issued 5/29/01	Granted	Nanogen O'Melveny
259	333D1US Multiplex Amplification and Separation of Nucleic Acid Sequences Using Ligation-Dependant Strand Displacement Amplification and Bioelectronic Chip Technology	US 6,864,071	Filed 5/25/01 Issued 3/8/05	Granted	Nanogen O'Melveny
260	335US Multiplex Amplification and Separation	US 6,309,833	Filed 4/12/99	Abandoned	Nanogen

	of Nucleic Acid Sequences on a Bioelectronic Microchip Using Asymmetric Structures		Issued 10/30/01	Granted	O'Melveny
261	335D1US Multiplex Amplification and Separation of Nucleic Acid Sequences on a Bioelectronic Microchip Using Asymmetric Structures	US 6,589,742	Filed 9/17/01 Issued 7/8/03	Granted	Nanogen O'Melveny
262	37610-519001US Methods for Rapid, Single-Step Strand Displacement Amplification of Nucleic Acids	US11/838,024 0096257	Filed 8/13/07	Published	Nanogen Mintz
263	376210-519001EP Methods for Rapid, Single-Step Strand Displacement Amplification of Nucelic Acids	EP	Filed 2/9/09	Pending	Nanogen Mintz
264	340US Topoisomerase Type II Gene Polymorphisms and Their Use in Identifying Drug Resistance and Pathogenic Strains of Microorganisms	US 7,135,283	Filed 11/17/98 Issued 11/14/06	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
265	37610-520C01US Method for Detecting Large Mutations/Duplications Using Control Amplification Comparisons to Paralogous Genes	US 12/118,312 US-2009-0087846-A1	Filed 5/9/08	Published	Nanogen Mintz
		NANOFABRICATION			
266	401US Methods and Apparatus for the Electronic, Homogeneous Assembly and Fabrication of Devices	US 6,569,382	Filed 11/8/99 Issued 5/27/03	Granted	Nanogen O'Melveny
267	401CA Methods and Apparatus for the Electronic, Homogeneous Assembly and	CA 2,389,314	Filed 4/24/02	Pending	Nanogen O'Melveny

	Fabrication of Devices				
268	401EP Methods and Apparatus for the Electronic, Homogeneous Assembly and Fabrication of Devices	EP 976960.5-2004	Filed 4/26/02	Published	Nanogen O'Melveny
269	401JP Methods and Apparatus for the Electronic, Homogeneous Assembly and Fabrication of Devices	JP 2001-537462	Filed 5/8/02	Pending	Nanogen O'Melveny
270	400US Methods for the Electronic Assembly and Fabrication of Devices	US 6,652,808	Filed 12/6/96 Issued 11/25/03	Granted	Nanogen O'Melveny
271	401C2US Methods for the Electronic, Homogeneous Assembly and Fabrication of Devices	US 11/401,713	Filed 4/11/06	Pending	Nanogen O'Melveny
272	400D1JP Affinity Based Self-Assembly Systems and Devices for Photonic and Electronic Application	JP 2007-203204	Filed 8/3/07	Pending	Nanogen O'Melveny
273	401C1US Methods for the Electronic, Homogeneous Assembly and Fabrication of Devices	US 7,060,224	Filed 1/6/03 Issued 6/13/06	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
274	402US Systems and Devices for Photoelectrophoretic Transport and Hybridization of Oligonucleotides	US 6,706,473	Filed 1/24/00 Issued 3/16/04	Granted	Nanogen O'Melveny
275	402C1US Systems and Devices for Photoelectronic Transport and Hybridization of Oligonucleotides	US 10/772,744	Filed 2/4/04	Pending	Nanogen O'Melveny
276	403CA Nanoscale Electronic Detection System	CA 2567114	Filed 5/27/05	Abandoned Pending	Nanogen O'Melveny
277	403EP Nanoscale Electronic Detection System	EP05804857.0	Filed 5/27/05	Abandoned Pending	Nanogen O'Melveny

278	403JP Nanoscale Electronic Detection System	JP 2007-515461	Filed 5/27/05	Pending	Nanogen O'Melveny
279	403KR Nanoscale Electronic Detection System	KR 10-2006-7027434	Filed 12/27/06	Pending	Nanogen O'Melveny
280	406US Electrode Based Patterning of Thin Film Self-Assembled Nano-Particles	US 11/233,486 US 2007-0138042-A1	Filed 9/21/05	Published	Nanogen O'Melveny
	MICRO ELECTROPHORESIS				
281	910US System and Method for Searching and Processing Databases Comprising Named Annotated Text Strings	US 6,249,784	Filed 5/19/99 Issued 6/19/01	Abandoned NC Granted	Nanogen O'Melveny
282	920C1US Method for Reducing the Linear Dimension Necessary for High Resolution Electrophoretic Separation	US 6,013,166	Filed 4/27/94 Issued 1/11/00	Granted	Nanogen O'Melveny
283	920C2USMethod for Reducing the Linear Dimension Necessary for High Resolution Electrophoretic Separation	US 6,488,832	Filed 8/12/99 Issued 12/3/02	Granted	Nanogen O'Melveny
	Title	**App/Patent No.**	**Filing/Issuance Dates**	**Status**	**Source**
	OPTICAL MEMORY				
284	930US Deoxyribonucleic Acid (DNA) Optical Storage Using Non-Radiative Energy Transfer Between a Donor Group, an Acceptor Group and a Quencher Group	US 5,787,032	Filed 6/10/94 Issued 7/28/98	Granted	Nanogen O'Melveny
285	930JP Deoxyribonucleic Acid (DNA) Optical Storage Using Non-Radiative Energy Transfer Between a Donor Group, an Acceptor Group and a Quencher Group	JP 4026847	Filed 6/7/95 Issued 10/19/07	Granted	Nanogen O'Melveny
286	930C1US Optical Storage Device Utilizing	US 5,835,404	Filed 8/5/97	Granted	Nanogen

	Non-Radiative Energy Transfer		Issued 11/10/98		O'Melveny
287	930C2US DNA Optical Storage	US 6,067,246	Filed 8/5/98 Issued 5/23/00	Granted	Nanogen O'Melveny
288	930C3US DNA Optical Storage	US 6,385,080	Filed 5/9/00 Issued 5/7/02	Granted	Nanogen O'Melveny

TYPE II DIABETES

Miscellaneous					
327	054468-5005US Microstructure Apparatus and Method for Separating Differently Charged Molecules Using an Applied Electric Field	US 6,942,778	Filed 11/28/00 Issued 9/13/05	Abandoned NC Granted	Nanogen Morgan Lewis
328	054468-5005US01 Microstructure Apparatus and Method for Separating Differently Charged Molecules Using an Applied Electric Field	US 11/175,195	Filed 7/7/05	Abandoned	Nanogen Morgan Lewis
331	950US Apparatus and Method for Removing Small Molecules and Ions from Low Volume Biological Samples	US 6,284,117	Filed 12/22/99 Issued 9/4/01	Granted	Nanogen O'Melveny
336	37610-510001US Fluidic Volume Dispense Verification Tool	US 11/948,627 2008-0233009	Filed 11/30/07	Published	Nanogen Mintz Levin
337	37610-510001PCT Fluidic Volume Dispense Verification Tool	US2007/086055 WO2008/070548	Filed 11/30/07	Published	Nanogen Mintz Levin