

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Verenium Corporation	09/02/2010

**RECEIVING PARTY DATA**

Name:	BP Corporation North America Inc.
Street Address:	4101 Winfield Road
Internal Address:	Mail Code 5 East
City:	Warrenville
State/Country:	ILLINOIS
Postal Code:	60555

**PROPERTY NUMBERS Total: 67**

Property Type	Number
Application Number:	08692002
Application Number:	08944795
Application Number:	09421970
Application Number:	09557276
Application Number:	09571499
Application Number:	08918793
Application Number:	07946290
Application Number:	08026051
Application Number:	08651568
Application Number:	09375605
Application Number:	09663620
Application Number:	09714780
Application Number:	09332835
Application Number:	12817616

CH \$2680.00 08692002

Application Number:	09498557
Application Number:	09522289
Application Number:	09535754
Application Number:	11798032
Application Number:	09756459
Application Number:	09867262
Application Number:	09885551
Application Number:	10039293
Application Number:	10087426
Application Number:	10099816
Application Number:	10108077
Application Number:	10309587
Application Number:	10382283
Application Number:	08760489
Application Number:	09185373
Application Number:	09246178
Application Number:	09267118
Application Number:	09276860
Application Number:	61303838
Application Number:	09848095
Application Number:	09848651
Application Number:	09848083
Application Number:	09098206
Application Number:	10157653
Application Number:	09444112
Application Number:	09687219
Application Number:	29162224
Application Number:	10095906
Application Number:	10084552
Application Number:	10103977
Application Number:	10084026
Application Number:	10452157
Application Number:	09034724
Application Number:	09437905
Application Number:	09089789

Application Number:	08962504
Application Number:	09376727
Application Number:	08677112
Application Number:	12671231
Application Number:	08983367
Application Number:	09467740
Application Number:	09861267
Application Number:	08503606
Application Number:	08988224
Application Number:	09407525
Application Number:	09713176
Application Number:	09875412
Application Number:	08657409
Application Number:	12679182
Application Number:	09677584
Application Number:	10624909
Application Number:	09561597
Application Number:	08918406

**CORRESPONDENCE DATA**

Fax Number: (630)821-3383  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
Phone: 6308212465  
Email: bpatentus@bp.com  
Correspondent Name: Carol A. Wilson  
Address Line 1: 4101 Winfield Road  
Address Line 2: Mail Code 5 East  
Address Line 4: Warrenville, ILLINOIS 60555

**ATTORNEY DOCKET NUMBER:**

VERENIUM ASSIGNMENTS

**NAME OF SUBMITTER:**

Mary Jo Kucharski

**Total Attachments: 48**

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## INTELLECTUAL PROPERTY ASSIGNMENT

THIS INTELLECTUAL PROPERTY ASSIGNMENT (this "Assignment") is made on this 2nd day of September 2010 (the "Effective Date"), by and between BP CORPORATION NORTH AMERICA INC., a corporation organized and existing under the laws of the state of Indiana, having an official place of business at 4101 Winfield Road, Warrenville, Illinois 60555 ("BP"), and VERENIUM CORPORATION, a Delaware corporation, having a place of business at 4955 Directors Place, San Diego, CA 92121 ("Verenium").

### WITNESSETH:

Pursuant to the terms of the ASSET PURCHASE AGREEMENT dated as of July 14, 2010, by and between BP BIOFUELS NORTH AMERICA LLC, a Delaware limited liability company ("BP BIOFUELS"), a subsidiary of BP CORPORATION NORTH AMERICA INC., and VERENIUM CORPORATION this Assignment is being entered into to induce BP BIOFUELS to consummate the transactions contemplated by the ASSET PURCHASE AGREEMENT dated July 14, 2010, between BP Biofuels North America LLC and Verenium Corporation, in consideration for the mutual promises it contains, and in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, BP and Verenium each further agree as follows:

1. Assignment. Verenium its predecessors and assigns has sold, assigned, transferred and conveyed and does hereby sell, assign, transfer and convey unto BP its successors and assigns: all of the rights, titles and interests in, to and benefits (a) in and to the patents, patent applications and the inventions described or set forth on Schedule A; (b) in and to all rights to apply for patents in the United States of America or any country foreign thereto on the inventions described or set forth on Schedule A (c) in and to all patent applications filed and all patents granted on the inventions in the United States of America or any country foreign thereto, described or set forth on Schedule A including every application and every patent granted on any application which is a divisional, substitution, or continuation of the applications, and every reissue or extensions of any patents described or set forth on Schedule A. Verenium does hereby authorize and request the Commissioner of Patents and Trademarks in the United States of America and any country foreign thereto to assign all applicable patent rights included herein to BP as assignee of the entire interest.

2. Further Action. Verenium hereby covenants and agrees to cooperate with BP to enable BP to enjoy to the fullest extent the right, title and interest herein conveyed in the United States of America and any country foreign thereto, and from time to time after the Effective Date, at BP's request and expense, shall:

a. execute, acknowledge and deliver to BP such other instruments of conveyance and transfer and will take such other actions and execute and deliver such other documents, certifications and further assurances, as BP may reasonably

require in the United States of America or a country foreign thereto in order to assign, transfer and convey to BP the items and materials set forth in Section 1 above;

b. render all reasonably requested assistance to BP to establish or protect BP's rights in and to the items and materials referenced in Section 1 above under the intellectual property laws of the United States of America or any country foreign thereto, including, without limitation, (i) causing Verenium's agents, employees and representatives, and (ii) using commercially reasonable efforts to cause Verenium's third party contractors (such agents, employees, representatives and contractors, collectively, "Verenium Parties") to execute appropriate instruments to secure, register, verify, validate, effect, maintain, renew or defend BP's rights in and to the items and materials referenced in Sections 1 above;

c. cooperation by Verenium's or Verenium Parties' shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers and other assistance, all to the extent deemed necessary by BP for (a) perfecting the right, title and interest herein conveyed, (b) prosecuting any of the applications, (c) filing and prosecuting, substitute, divisional, continuing or additional applications covering the inventions; (d) for interference or other priority proceedings involving the invention, and (e) legal proceedings involving the inventions and any applications thereof and any patents granted thereon, including without limitation, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions, provided, however, that the expense incurred by Verenium's or Verenium Parties' in providing such cooperation shall be paid for by BP;

d. not contest, deny or take any action inconsistent with BP's rights to the items and materials set forth in Section 1 above.

In the event that BP is unable to secure Verenium's or Verenium Parties' signature on any documents deemed necessary by BP, in its reasonable discretion, to carry out the purposes of this Assignment, if (i) after BP has provided Verenium with written notice of such request, (ii) at least twenty (20) business days have lapsed since BP has provided the written notice, and (iii) Verenium has not, during such twenty (20) business day period, provided Verenium's or the Verenium Parties' signature on such documents, then on the twenty first (21<sup>th</sup>) business day after BP has provided Verenium with such written notice, Verenium hereby irrevocably designates and appoints BP or its designee(s) as Verenium's agent and attorney-in-fact, which appointment is coupled with an interest, to act for and in Verenium's behalf for the sole purpose of executing, verifying and filing any such document(s).

3. Successors and Assigns. Verenium hereby warrants and represents that they have not entered and will not enter into any assignment, contract or understanding in conflict herewith. The terms and covenants of this Assignment shall inure to the benefit of and be binding upon the successors and assigns of BP and Verenium.

4. Governing Law. This Assignment shall be governed by and construed in accordance with the laws of the State of New York, USA, without giving effect to any of the conflict of law rules thereof to the extent such rules would require or permit the application of the laws of another jurisdiction to this Assignment.

5. Counterparts. This Assignment may be executed in any number of counterparts, each of which shall be deemed an original and all of which together shall constitute one and the same instrument.

6. Amendment and Waiver. This Assignment may not be amended or modified in any manner other than by an agreement in writing signed by the parties hereto or their respective successors or permitted assigns. No waiver under this Assignment shall be valid or binding unless set forth in a writing duly executed and delivered by the party against whom enforcement of such waiver is sought. Neither the waiver by any of the parties of a breach or default under any of the provisions of this Assignment, nor the failure by any of the parties, on one or more occasions, to enforce any of the provisions of this Assignment or to exercise any right or privilege hereunder, shall be construed as a waiver of any other breach or default of a similar nature, or as a waiver of any of such provisions, rights or privileges hereunder.

*[Signature Page Follows]*

IN TESTIMONY WHEREOF, each party has executed this Assignment by its proper officers thereunto duly authorized.

<p><b>VERENIUM CORPORATION</b></p> <p>By: <u>[Signature]</u>  Name: <u>Jeffrey G. Black</u>  Title: <u>Chief Accounting Officer</u>  Date: <u>September 1, 2010</u>  State of <u>California</u> )  County of <u>San Diego</u> ) ss.</p>	<p><b>BP CORPORATION NORTH AMERICA INC.</b></p> <p>By: <u>[Signature]</u>  Name: <u>James J. Trussell</u>  Title: <u>Vice President</u>  Date: <u>September 2, 2010</u>  State of <u>Illinois</u> )  County of <u>DuPage</u> ) ss.</p>
<p><b>IN WITNESS WHEREOF</b></p> <p>By: <u>[Signature]</u>  Name: <u>Kalim Fuzon</u>  Title: <u>Senior Dir, IP</u>  Date: <u>September 1, 2010</u></p>	<p><b>IN WITNESS WHEREOF</b></p> <p>By: <u>[Signature]</u>  Name: <u>Thomas A. Yassen</u>  Title: <u>Managing Attorney</u>  Date: <u>September 2, 2010</u></p>
<p><b>IN WITNESS WHEREOF</b></p> <p>By: <u>[Signature]</u>  Name: <u>Lynn Linkowski</u>  Title: <u>Patent Agent III</u>  Date: <u>September 1, 2010</u></p>	<p><b>IN WITNESS WHEREOF</b></p> <p>By: <u>[Signature]</u>  Name: <u>IP Attorney</u>  Title: <u>John P. Polick</u>  Date: <u>9/2/10</u></p>

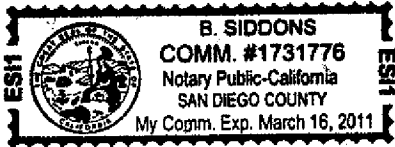


**VERENIUM CORPORATION**

On this 1<sup>st</sup> day of September, 2010, before me B. Siddons, Notary Public personally appeared the Jeffrey G. Black, who proved to me on the basis of satisfactory evidence to be the person who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

I Certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and Official Seal.



B. Siddons  
Notary Public,  
San Diego County, State of California  
My Commission Expires: March 16, 2011

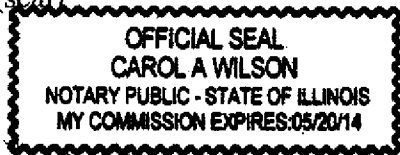
(seal)

**BP CORPORATION NORTH AMERICA INC.**

On this 2nd day of September, 2010 before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Carol A Wilson  
Notary Public,

(seal)



Du Page County, State of IL  
My Commission Expires: 5-20-14


## ASSIGNMENT

### SCHEDULE A

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
1	BIOPANNING	Method for Screening for Enzyme Activity	Granted	AU	48933/00	756201
2	BIOPANNING	Method for Screening for Enzyme Activity	Granted	AU	2003-200812	2003200812
3	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	EP	01102857.8	
4	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	HK	02101700.7	
5	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	JP	2000-239967	
6	BIOPANNING	Method for Screening for Enzyme Activity	Granted	US	08/692,002	6,054,267
7	BIOPANNING	Screening for Novel Bioactivities	Granted	US	08/944,795	6,030,779
8	BIOPANNING	Screening for Novel Bioactivities	Granted	US	09/421,970	6,368,798
9	BIOPANNING	Method for Screening for Enzyme Activity	Granted	US	09/557,276	6,344,328
10	BIOPANNING	Sequence Based Screening	Granted	AU	63148/01	782529
11	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	CA	2,375,082	
12	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	EP	01937406.5	
13	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	IL	147637	
14	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	JP	2001-584578	
15	BIOPANNING	Sequence Based Screening	Granted	US	09/571,499	6,455,254
16	BIOPANNING	Method for Screening for Enzyme Activity	Completed	WO	PCT/US01/015692	
17	BIOPANNING	Sequence Based Screening	Abandoned	AU	2003-204929	
18	BIOPANNING	Sequence Based Screening	Pending	AU	2007201249	

Assignor: .....

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Assignee: 

**PATENT**  
**REEL: 025464 FRAME: 0093**

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
19	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	US	09/858,616	
20	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	US	10/072,499	
21	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	US	10/121,145	
22	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	US	10/229,554	
23	BIOPANNING	Method for Screening for Enzyme Activity	Granted	AT	96942920.8	AT E260987
24	BIOPANNING	Method for Screening for Enzyme Activity	Granted	AU	11489/97	720334
25	BIOPANNING	Method for Screening for Enzyme Activity	Granted	BE	0-866-853	EP 0866853
26	BIOPANNING	Method of Screening for Enzyme Activity	Abandoned	CA	2,239,686	
27	BIOPANNING	Method for Screening for Enzyme Activity	Granted	CH	96942920.8	EP 0 866853
28	BIOPANNING	Method for Screening for Enzyme Activity	Granted	DE	DE69631787T2	DE69631787
29	BIOPANNING	Method for Screening for Enzyme Activity	Completed	EP	96942920.8	EP0866853
30	BIOPANNING	Method for Screening for Enzyme Activity	Granted	FR	96942920.8	EP 0866853
31	BIOPANNING	Method for Screening for Enzyme Activity	Granted	GB	96942920.8	EP 0866853
32	BIOPANNING	Method for Screening for Enzyme Activity	Granted	IE	96942920.8	EP 0866853
33	BIOPANNING	Method for Screening for Enzyme Activity	Granted	IL	124794	124794
34	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	JP	09-521457	
35	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	LU	96942920.8	EP 0866853
36	BIOPANNING	Method for Screening for Enzyme Activity	Abandoned	MC	4/20614	EP 0866853
37	BIOPANNING	Method for Screening for Enzyme Activity	Converted	US	60/008,317	
38	BIOPANNING	Method for Screening for Enzyme Activity	Completed	WO	PCT/US96/019457	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
39	BIO-TRAPS	Coated Surfaces for Selective Enrichment of Microbial Populations	Abandoned	AU	2002-301792	
40	BIO-TRAPS	Coated Surfaces for Selective Enrichment of Microbial Populations	Abandoned	US	10/301,537	
41	BIO-TRAPS	Coated Surfaces for Selective Enrichment of Microbial Populations	Granted	AU	92260/98	754746
42	BIO-TRAPS	Coated Surfaces for Selective Enrichment of Microbial Populations	Abandoned	CA	2,301,953	
43	BIO-TRAPS	Coated Surfaces for Selective Enrichment of Microbial Populations	Abandoned	EP	98944811.3	
44	BIO-TRAPS	Coated Surfaces for Selective Enrichment of Microbial Populations	Abandoned	JP	2000-507781	3668132
45	BIO-TRAPS	Microbial enrichment using a container having a plurality of solid support particles	Granted	US	08/918,793	6,610,528
46	BIO-TRAPS	Coated Surfaces for Selective Enrichment of Microbial Populations	Completed	WO	PCT/US98/018734	
47	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	AU	17794/92	672748
48	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Abandoned	AU	10176/97	
49	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Abandoned	AU	47441/99	
50	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Abandoned	AU	2002-300329	
51	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Published	BR	PI9205782-9	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
52	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	CA	2,106,377	2,106,377
53	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	CN	92101877.0	CN1065915C
54	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	CN	00131779.2	ZL 131779.2
55	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	DE	92910933.8	0576621
56	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Completed	EP	92910933.8	0576621
57	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	ES	92910933.8	0576621
58	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	FI	934087	119997
59	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	FR	92910933.8	0576621
60	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	GB	92910933.8	0576621
61	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	IT	67952/BE/2001	0576621
62	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	JP	509941/92	3457664
63	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	KR	93-702803	292,079
64	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	NO	P19933178	315567

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
65	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	NZ	241970	241970
66	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	PH	44050	1199244050
67	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	SE	92910933.8	0,576,621
68	CELUNOL		Abandoned	US	07/670,821	
69	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Expired	WO	US92/01807	
70	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	MX	9312521	194048
71	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Expired	US	07/846,344	5,424,202
72	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	US	07/946,290	5,487,989
73	CELUNOL	Processes for ethanol production	Abandoned	AU	51598/93	
74	CELUNOL	ETHANOL PRODUCTION BY RECOMBIANT HOSTS	Granted	CN	93114096.X	1068629C
75	CELUNOL	RECOMBIANT CELLS THAT HIGHLY EXPRESS CHROMOSOMALLY-INTEGRATED HETEROLOGOUS GENES	Granted	PH	46881	1199346881
76	CELUNOL	ETHANOL PRODUCTION BY RECOMBINANT HOSTS	Granted	US	08/026,051	5,554,520
77	CELUNOL	Processes for Ethanol Production	Completed	WO	US1993/08558	
78	COMBINATORIAL	Production of Enzymes Having Desired Activities By Mutagenesis	Granted	US	08/651,568	5,939,250

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
79	COMBINATORIAL	Title as Amended Upon Filing: Production of Enzymes Having Desired Activities by Mutagenesis	Abandoned	US	10/912,465	
80	COMBINATORIAL	Methods For Obtaining A Desired Bioactivity or Biomolecule Using DNA Libraries From An Environmental Source	Granted	US	09/375,605	6,790,605
81	COMBINATORIAL	Combinatorial enzyme development	Abandoned	AU	91208/01	
82	COMBINATORIAL	Combinatorial enzyme development	Pending	AU	2007231834	
83	COMBINATORIAL	Combinatorial enzyme development	Abandoned	CA	2,391,626	
84	COMBINATORIAL	Combinatorial enzyme development	Abandoned	EP	01971309.8	
85	COMBINATORIAL	Combinatorial Screening of Mixed Populations of Organisms	Abandoned	JP	2002-527252	
86	COMBINATORIAL	Combinatorial Screening of Mixed Populations of Organisms	Granted	US	09/663,620	7,018,793
87	COMBINATORIAL	Combinatorial enzyme development	Completed	WO	PCT/US01/029712	
88	COMBINATORIAL	Altered Thermostability of Enzymes	Granted	US	09/714,780	6,632,600
89	COMBINATORIAL	Combinatorial enzyme development	Abandoned	US	09/401,861	
90	COMBINATORIAL	Combinatorial Screening of Mixed Populations of Organisms Combinatorial enzyme development?	Abandoned	US	10/458,523	
91	COMBINATORIAL	Combinatorial enzyme development	Converted	US	60/008,316	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
92	DIRECTED EVOLUTION	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	US	11/559,839	
93	DIRECTED EVOLUTION	SYNTHETIC LIGATION REASSEMBLY IN DIRECTED EVOLUTION	Abandoned	AU	56246/00	
94	DIRECTED EVOLUTION	SYNTHETIC LIGATION REASSEMBLY IN DIRECTED EVOLUTION	Pending	AU	2005-225057	
95	DIRECTED EVOLUTION	SYNTHETIC LIGATION REASSEMBLY IN DIRECTED EVOLUTION	Pending	AU	2009212959	
96	DIRECTED EVOLUTION	Synthetic Ligation Reassembly	Granted	CA	2,374,667	2,374,667
97	DIRECTED EVOLUTION	Synthetic Ligation Reassembly	Published	EP	00941550.6	
98	DIRECTED EVOLUTION	Synthetic Ligation Reassembly	Published	HK	02107285.7	
99	DIRECTED EVOLUTION	Synthetic Ligation Reassembly in Directed Evolution	Pending	IL	146937	
100	DIRECTED EVOLUTION	Synthetic Ligation Reassembly	Published	JP	2001-503702	
101	DIRECTED EVOLUTION	Synthetic Ligation Reassembly in Directed Evolution	Granted	MX	PA/a/2001/013020	228,539
102	DIRECTED EVOLUTION	Synthetic Ligation Reassembly in Directed Evolution	Pending	MX	PA/a/2005/006395	
103	DIRECTED EVOLUTION	Synthetic Ligation Reassembly in Directed Evolution	Granted	US	09/332,835	6,537,776
104	DIRECTED EVOLUTION	Synthetic Ligation Reassembly in Directed Evolution	Completed	WO	PCT/US00/016838	



No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
105	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines	Closed	US	09/495,052	6,479,258
106	DIRECTED EVOLUTION	Gene Site Saturation Mutagenesis (GSSM)	Abandoned	US	11/285,302	
107	DIRECTED EVOLUTION	Gene Site Saturation Mutagenesis	Pending	US	12/817,616	
108	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Granted	US	09/498,557	6,713,279
109	DIRECTED EVOLUTION	END SELECTION IN DIRECTED EVOLUTION	Granted	US	09/522,289	6,358,709
110	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Ressembly in Directed Evolution	Granted	US	09/535,754	6,361,974
111	DIRECTED EVOLUTION	Synthetic Ligation Reassembly in Directed Evolution	Pending	US	11/798,032	
112	DIRECTED EVOLUTION	Synthetic Ligation Reassembly in Directed Evolution	Closed	US	09/594,459	6,605,449
113	DIRECTED EVOLUTION	Saturation Mutagenesis in Directed Evolution	Granted	US	09/756,459	6,562,594
114	DIRECTED EVOLUTION	End Selection in Directed Evolution	Granted	US	09/867,262	6,696,275
115	DIRECTED EVOLUTION		Closed	US		
116	DIRECTED EVOLUTION	End Selection in Directed Evolution	Granted	US	09/885,551	6,740,506
117	DIRECTED EVOLUTION	Direct evolution of thermophilic enzymes	Converted	US	60/008,311	
118	DIRECTED EVOLUTION	CHROMOSOMAL SATURATION MUTAGENESIS (GSSM)	Abandoned	AU	2002 364518	
119	DIRECTED EVOLUTION	CHROMOSOMAL SATURATION MUTAGENESIS (GSSM)	Abandoned	CA	2,468,710	
120	DIRECTED EVOLUTION	CHROMOSOMAL SATURATION MUTAGENESIS (GSSM)	Abandoned	EP	02799895.4	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
121	DIRECTED EVOLUTION	CHROMOSOMAL SATURATION MUTAGENESIS (GSSM)	Abandoned	JP	2003-549508	
122	DIRECTED EVOLUTION	Chromosomal Saturation Mutagenesis (GSSM)	Abandoned	US	10/494,875	
123	DIRECTED EVOLUTION	Chromosomal Saturation Mutagenesis (GSSM)	Completed	WO	PCT/US02/038587	
124	DIRECTED EVOLUTION	Exonuclease-Mediated Gene Assembly in Directed Evolution	Abandoned	US	10/029,221	6,939,689
125	DIRECTED EVOLUTION	Directed Evolution of Thermophilic Enzymes	Granted	US	10/039,293	6,713,281
126	DIRECTED EVOLUTION	Exonuclease-Mediated Gene Assembly in Directed Evolution	Granted	US	10/087,426	6,709,841
127	DIRECTED EVOLUTION	End Selection in Directed Evolution	Granted	US	10/099,816	6,713,282
128	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Reassembly in Directed Evolution	Granted	US	10/108,077	6,635,449
129	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines	Abandoned	US	10/223,507	
130	DIRECTED EVOLUTION	Saturation Mutagenesis in Directed Evolution (GSSM)	Granted	US	10/309,587	6,764,835
131	DIRECTED EVOLUTION	End Selection In Directed Evolution	Abandoned	US	10/382,331	
132	DIRECTED EVOLUTION	End Selection in Directed Evolution	Granted	US	10/382,283	6,773,900
133	DIRECTED EVOLUTION	Synthetic Ligation Reassembly In Directed Evolution	Closed	US		
134	DIRECTED EVOLUTION	Synthetic Ligation Reassembly	Abandoned	US	10/422,523	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
135	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Reassembly In Directed Evolution	Abandoned	US	10/631,544	
136	DIRECTED EVOLUTION	SATURATION MUTAGENESIS IN DIRECTED EVOLUTION (GSSM)	Abandoned	US	10/644,410	
137	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Reassembly in Directed Evolution	Abandoned	US	10/897,650	
138	DIRECTED EVOLUTION	MSMV	Closed	US		
139	DIRECTED EVOLUTION	Gene Site Saturation Mutagenesis	Abandoned	US	12/053,763	
140	DIRECTED EVOLUTION	Gene Site Saturation Mutagenesis	Abandoned	US	11/778,383	
141	DIRECTED EVOLUTION	Gene Reassembly	Abandoned	US	11/778,257	
142	DIRECTED EVOLUTION	Directed Evolution of Thermophilic Enzymes	Granted	US	08/760,489	5,830,696
143	DIRECTED EVOLUTION	Reductive Reassortment	Closed	US	08/962,504	6,489,145
144	DIRECTED EVOLUTION	Directed Evolution of Thermophilic Enzymes	Granted	US	09/185,373	6,335,179
145	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Abandoned	AU	34839/00	
146	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Granted	AU	2005201125	2005201125
147	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Granted	CA	2,325,351	2,325,351
148	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Published	CA	2,492,661	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
149	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Published	EP	00913378.6	
150	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Published	HK	01105448.6	
151	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Published	IL	138206	
152	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Abandoned	JP	2000-597406	
153	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Published	JP	2005-080273	
154	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Granted	MX	2000/009723	273390
155	DIRECTED EVOLUTION	Saturation Mutagenesis in Directed Evolution	Granted	US	09/246,178	6,171,820
156	DIRECTED EVOLUTION	Non-Stochastic Generation of Genetic Vaccines and Enzymes	Completed	WO	PCT/US00/003086	
157	DIRECTED EVOLUTION	End Selection in Directed Evolution	Abandoned	AU	38793/00	
158	DIRECTED EVOLUTION	End Selection in Directed Evolution	Abandoned	AU	2005203719	
159	DIRECTED EVOLUTION	End Selection in Directed Evolution	Abandoned	CA	2,361,927	
160	DIRECTED EVOLUTION	End Selection in Directed Evolution	Abandoned	EP	00917887.2	
161	DIRECTED EVOLUTION	End Selection in Directed Evolution	Abandoned	IL	145165	
162	DIRECTED EVOLUTION	End Selection in Directed Evolution	Abandoned	JP	2000-603365	
163	DIRECTED EVOLUTION	End Selection in Directed Evolution	Abandoned	MX	2001/009091	
164	DIRECTED EVOLUTION	End Selection in Directed Evolution	Granted	US	09/267,118	6,238,884

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
165	DIRECTED EVOLUTION	End Selection in Directed Evolution	Completed	WO	PCT/US00/006497	
166	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Reassembly in Directed Evolution	Abandoned	AU	40394/00	40394/00
167	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Reassembly in Directed Evolution	Abandoned	AU	2005203018	
168	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Reassembly in Directed Evolution	Abandoned	CA	2,329,122	
169	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Reassembly in Directed Evolution	Abandoned	EP	00919763.3	
170	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Reassembly in Directed Evolution	Abandoned	HK	01107223.3	
171	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Reassembly in Directed Evolution	Abandoned	JP	2000-608795	
172	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Reassembly in Directed Evolution	Abandoned	MX	PA000011569	
173	DIRECTED EVOLUTION	Exonuclease-Mediated Nucleic Acid Reassembly in Directed Evolution	Abandoned	SE	00919763.3	
174	DIRECTED EVOLUTION	Exonuclease-Mediated Gene Assembly in Directed Evolution	Granted	US	09/276,860	6,352,842
175	DIRECTED EVOLUTION	Exonuclease-Mediated Gene Assembly in Directed Evolution	Completed	WO	PCT/US00/008245	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
176	DIRECTED EVOLUTION	Chromosomal Saturation Mutagenesis (GSSM)	Converted	US	60/336,567	
177	DIRECTED EVOLUTION	Computerized Directed Evolution of Molecules Using Stepwise and Iterative Applications of Synthetic Ligation Reassembly	Expired	US	60/260,703	
178	Ethanologens	RECOMBINANT ETHANOLOGENIC BACTERIA	Pending	AR		
179	Ethanologens	RECOMBINANT ETHANOLOGENIC BACTERIA	Pending	WO	PCT/US2010/39586	
180	Ethanologens	RECOMBINANT ETHANOLOGENIC BACTERIA	Expired	US	61/219,596	
181	Ethanologens	Bacteria Capable of Using Cellobiose and Methods of Use Thereof	Pending	US	61/303,838	
182	FACS/GIGAMATRIX	High Throughput Screening for Novel Bioactivities	Abandoned	US	10/948,807	
183	FACS/GIGAMATRIX	High Throughput Screening for Novel Bioactivities	Granted	US	09/848,095	6,872,526
184	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	US	09/848,185	
185	FACS/GIGAMATRIX	Method for High Throughput Screening of an Environmental Library	Granted	US	09/848,651	6,806,048
186	FACS/GIGAMATRIX	High Throughput Screening of Mycelia for Bioactivities or Biomolecules	Granted	US	09/848,083	6,602,675

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
187	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes Published	Abandoned	US	09/894,956	
188	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Converted	US	60/309,101	
189	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Closed	US		
190	FACS/GIGAMATRIX	High Throughput or Capillary-Based Screening for a Bioactivity or Biomolecule	Abandoned	AU	11642/02	
191	FACS/GIGAMATRIX	High Throughput or Capillary-Based Screening For A Bioactivity or Biomolecule	Abandoned	CA	2,393,374	
192	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	EP	01979708.3	
193	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	IL	150020	
194	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	JP	2002-534567	
195	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	MX	2002/005717	
196	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes Published	Abandoned	US	09/975,036	
197	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes Published	Completed	WO	PCT/US01/031806	
198	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	US	10/096,701	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
199	FACS/GIGAMATRIX	High Throughput Screening for Sequences of Interest	Abandoned	US	10/960,137	
200	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes Published	Abandoned	US	10/145,314	
201	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	AU	35649/02	777815
202	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Granted	US	09/098,206	6,174,673
203	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes Published	Abandoned	US	10/145,280	
204	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes Published	Abandoned	US	10/145,281	
205	FACS/GIGAMATRIX	Published Title: Capillary Array-Based Sample Screening	Abandoned	US	10/156,878	
206	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Closed	US		
207	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Granted	US	10/157,653	6,866,824
208	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Abandoned	AU	17961/01	
209	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Abandoned	CA	2,360,750	
210	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Abandoned	EP	00980740.5	
211	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Abandoned	IL	144251	
212	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Abandoned	JP	2001-539924	
213	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Abandoned	MX	2001/007369	
214	FACS/GIGAMATRIX	Capillary Array-Based Enzyme Screening	Granted	US	09/444,112	6,972,183



No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
215	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Completed	WO	PCT/US00/032208	
216	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Abandoned	US	10/232,869	
217	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Abandoned	US	10/237,246	
218	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Abandoned	US	10/237,247	
219	FACS/GIGAMATRIX	High Throughput Screening Method for Identification of Biomolecules	Abandoned	US	10/407,633	
220	FACS/GIGAMATRIX	Discovery of Bioactive Compounds from Environmental Gene Libraries Utilizing an Advanced Screening Platform Family: High Throughput Screening for Novel Enzymes	Expired	US	60/459,421	
221	FACS/GIGAMATRIX	High Throughput For Capillary-Based Screening For a Bioactivity or Biomolecule	Converted	US	60/399,272	
222	FACS/GIGAMATRIX	High Throughput or Capillary-Based Screening for a Bioactivity or Biomolecule	Abandoned	US	10/626,477	
223	FACS/GIGAMATRIX	High Throughput or Capillary-Based Screening For A Bioactivity or Biomolecule	Abandoned	WO	PCT/US04/023883	
224	FACS/GIGAMATRIX	High Throughput Screening of Libraries	Abandoned	US	10/688,057	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
225	FACS/GIGAMATRIX	High Throughput Screening of Antibody Libraries Claims priority to 10/688,057...	Abandoned	WO	PCT/US04/034180	
226	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	US	10/842,187	
227	FACS/GIGAMATRIX	High Throughput Screening for Sequences of Interest	Abandoned	US	09/685,432	
228	FACS/GIGAMATRIX	High Throughput Screening Method for Identification of Biomolecules	Abandoned	US	09/636,778	
229	FACS/GIGAMATRIX	Capillary Array-Based Sample Screening	Granted	US	09/687,219	6,794,127
230	FACS/GIGAMATRIX	High Throughput Screening for a Bioactivity or Biomolecule	Abandoned	US	09/738,871	
231	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	US	09/790,321	
232	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	US	09/761,559	
233	FACS/GIGAMATRIX	High Throughput Screening Fluorescence-Based Screening for Novel Enzymes	Abandoned	AU	81502/98	749587
234	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	CA	2,294,380	
235	FACS/GIGAMATRIX	High Throughput Fluorescence-Based Screening for Novel Enzymes	Abandoned	EP	98931354.9	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
236	FACS/GIGAMATRIX	High Throughput Fluorescence-Based Screening for Novel Enzymes	Abandoned	JP	11-504782	
237	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Abandoned	US	08/876,276	
238	FACS/GIGAMATRIX	High Throughput Screening for Novel Enzymes	Completed	WO	PCT/US98/012674	
239	Feedstock Preparation	METHODS FOR THE PREPARATION AND USE OF CELLULOSIC FEEDSTOCK FOR ETHANOL PRODUCTION	Pending	AR	P100102186	
240	Feedstock Preparation	METHODS FOR THE PREPARATION AND USE OF CELLULOSIC FEEDSTOCK FOR ETHANOL PRODUCTION	Pending	WO	PCT/US2010/39460	
241	Feedstock Preparation	Methods for the Preparation of Feedstock	Expired	US	61/219,362	
242	GIGAMATRIX	Stackable Sample Holding Plate with Robot Removable Lid	Closed	US		
243	GIGAMATRIX	Stackable Sample Holding Plate with Robot Removable Lid	Abandoned	US		
244	GIGAMATRIX	Stackable Sample Holding Plate with Robot Removable Lid	Granted	US	29/162,224	D480814 S
245	GIGAMATRIX	Stackable Sample Holding Plate with Robot Removable Lid	Closed	US		
246	GIGAMATRIX	Device for Influencing a Solution Held in a Through-Hole Well of a Holding Tray	Refiled	US	60/588,947	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
247	GIGAMATRIX	Device for Influencing a Solution Held in a Through-Hole Well of a Holding Tray	Abandoned	US	60/700,612	
248	GIGAMATRIX	A Method for Manipulating the Liquid Samples That Are Held In The Through-Hole Wells of a Holding Tray	Refiled	US	60/587,418	
249	GIGAMATRIX	A Method for Manipulating the Liquid Samples That Are Held In The Through-Hole Wells of a Holding Tray	Abandoned	US	60/699,359	
250	GIGAMATRIX	Stackable Sample Holding Plate with Robot Removable Lid	Granted	US	10/095,906	6,918,738
251	GIGAMATRIX	Holding Tray Having Through-Hole Wells	Abandoned	AU	2003217678	
252	GIGAMATRIX	GigaMatrix Holding Tray Having Through-Hole Wells	Abandoned	US	10/964,940	
253	GIGAMATRIX	Holding Tray Having Through-Hole Wells	Abandoned	CA	2,477,317	
254	GIGAMATRIX	Holding Tray Having Through-Hole Wells	Abandoned	EP	03713636.3	
255	GIGAMATRIX	Holding Tray Having Through-Hole Wells	Abandoned	JP	2003-570991	
256	GIGAMATRIX	GigaMatrix holding tray having through-hole wells	Granted	US	10/084,552	7,019,827
257	GIGAMATRIX	Published Title: Holding Tray Having Through-Hole Wells Family Title?: Stackable Sample Holding Plate with Robot Removable Lid	Completed	WO	PCT/US03/005538	
258	GIGAMATRIX	Stackable Sample Holding Plate with Robot Removable Lid	Closed	US		

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
259	GIGAMATRIX	A Device for Moving a Selected Station of a Holding Plate to a Predetermined Location for Interaction with a Probe Previously: (Stackable Sample Holding Plate with Robot Removable Lid)	Abandoned	US	10/286,194	
260	GIGAMATRIX	A Device for Moving a Selected Station of a Holding Plate to a Predetermined Location for Interaction with a Probe	Abandoned	WO	PCT/US03/034701	
261	GIGAMATRIX	Positioning System For Moving A Selected Station of a Holding Plate to A Predetermined Location For Interaction With a Probe	Abandoned	AU	2003220235	
262	GIGAMATRIX	Positioning System For Moving A Selected Station of a Holding Plate to a Predetermined Location For Interaction with a Probe	Abandoned	CA	2,478,334	
263	GIGAMATRIX	Positioning System For Moving a Selected Station of a Holding Plate to a Predetermined Location for Interaction with a Probe	Abandoned	CN	03805646.1	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
264	GIGAMATRIX	Positioning System for Moving a Selected Station of a Holding Plate to a Predetermined Location For Interaction With a Probe	Abandoned	EP	03716532.1	
265	GIGAMATRIX	Positioning System For Moving A Selected Station of A Holding Plate to a Predetermined Location For Interaction with a Probe	Abandoned	JP	2003-576983	
266	GIGAMATRIX	A POSITIONING SYSTEM FOR MOVING A SELECTED STATEION OF A HOLDING PLATE TO A PREDETERMINED LOCATION FOR INTERNATION WITH A PROBE (Formerly, Stackable Sample Holding Plate with Robot Removable Lid)	Abandoned	US	10/095,907	
267	GIGAMATRIX	Positioning System For Moving A Selected Station of A Holding Plate To a Predetermined Location For Internaction With A Probe	Completed	WO	PCT/US03/007724	
268	GIGAMATRIX	Positioning System For Moving A Selected Station of a Holding Plate to a Predetermined Location for Interaction With a Probe	Abandoned	US	10/506,930	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
269	GIGAMATRIX	Control System for Manipulating the Meniscus of a Sample	Closed	US		
270	GIGAMATRIX	A Method for Intensifying the Optical Detection of Samples that are Held in Solution in the Through-Hole Wells of a Holding Tray	Abandoned	AU	2003225884	
271	GIGAMATRIX	A Method for Intensifying the Optical Detection of Samples That Are Held in Solution in the Through-Hole Wells of a Holding Tray	Abandoned	CA	2,478,824	
272	GIGAMATRIX	A Method for Intensifying The Optical Detection Of Samples That Are Held In Solution In The Through-Hole Wells Of A Holding Tray	Abandoned	CN	03805852.9	
273	GIGAMATRIX	A Method For Intensifying The Optical Detection of Samples That Are Held In Solution In The Through-Hole Wells of A Holding Tray	Abandoned	EP	03745547.4	
274	GIGAMATRIX	A Method for Intensifying the Optical Detection of Samples That are Held in Solution in the Through-Hole Wells of a Holding Tray	Abandoned	JP	2003-580836	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
275	GIGAMATRIX	METHOD FOR INTENSIFYING THE OPTICAL DETECTION OF SAMPLES THAT ARE HELD IN SOLUTION IN THE THROUGH-HOLE WELLS OF A HOLDING TRAY	Granted	US	10/103,977	6,798,520
276	GIGAMATRIX	METHOD FOR INTENSIFYING THE OPTICAL DETECTION OF SAMPLES THAT ARE HELD IN SOLUTION IN THE THROUGH-HOLE WELLS OF A HOLDING TRAY	Abandoned	US	10/893,820	
277	GIGAMATRIX	Stackable Sample Holding Plate with Robot Removable Lid	Completed	WO	PCT/US03/008499	
278	GIGAMATRIX	System And Method For Introducing A Solution For Mixture With Another Solution In A Through-Hole Well Of A Holding Tray	Closed	US		
279	GIGAMATRIX	A Device for Effecting Heat Transfer with Solution Held in a Through-Hole Well of a Holding Tray	Abandoned	AU	2003219867	
280	GIGAMATRIX	A Device for Effecting Heat Transfer with Solution Held in a Through-Hole Well of a Holding Tray	Abandoned	CA	2,477,792	
281	GIGAMATRIX	A Device for Effecting Heat Transfer with Solution Held in a Through-Hole Well of a Holding Tray	Abandoned	EP	03716149.4	



No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
282	GIGAMATRIX	Device for Effecting Heat Transfer with a Solution Held in a Through-Hole Well of a Holding Tray	Granted	US	10/084,026	6,764,818
283	GIGAMATRIX	Stackable Sample Holding Plate with Robot Removable Lid	Abandoned	WO	PCT/US03/005539	
284	GIGAMATRIX	Stackable Sample Holding Plate with Robot Removable Lid	Closed	US		
285	GIGAMATRIX	Stackable Sample Holding Plate with Robot Removable Lid	Closed	US		
286	GIGASEQUENCING	MULTIPLEXED AND CAPILLARY ARRAY SYSTEM FOR MICROBEAD-BASED NUCLEIC ACID SEQUENCING	Converted	US	60/384,880	
287	GIGASEQUENCING	Multiplexed Systems for Nucleic Acid Sequencing	Granted	US	10/452,157	7,291,460
288	GIGASEQUENCING	Published Title: Multiplexed Systems for Nucleic Acid Sequencing Prior Title: MICROBEAD-BASED NUCLEIC ACID SEQUENCING METHODS	Abandoned	WO	PCT/US03/017303	
289	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	AU	28981/99	744699
290	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	CA	2,321,930	
291	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	EP	99909874.2	
292	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	HK	01104148.2	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
293	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	JP	2000-534685	
294	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	MX	PAa2000008559	
295	NORMALIZED	Production and Use of Normalized DNA Libraries	Granted	US	09/034,724	6,001,574
296	NORMALIZED	Production and Use of Normalized DNA Libraries	Completed	WO	PCT/US99/004917	
297	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	AU	44366/02	777951
298	NORMALIZED	Production and Use of Normalized DNA Libraries	Granted	US	09/437,905	6,444,426
299	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	AU	43335/99	765207
300	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	CA	2,330,827	
301	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	EP	99955262.3	
302	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	HK	01104372.9	
303	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	IL	139906	
304	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	JP	2000-552062	
305	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	MX	011879	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
306	NORMALIZED	Production and Use of Normalized DNA Libraries	Pending	US	09/089,789	
307	NORMALIZED	Production and Use of Normalized DNA Libraries	Completed	WO	PCT/US99/012496	
308	NORMALIZED	Production and Use of Normalized DNA Libraries	Closed	US		
309	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	US	10/034,622	
310	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	US	10/235,181	
311	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	AT	97930172.8	90112
312	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	AU	34066/97	718573
313	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	BE	97930172.8	EP0923598
314	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	CA	2,258,175	
315	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	CH	97930172.8	EP0923598
316	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	DE	69734063.5-08	69734063.5
317	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	DK	DK/EP0923598	DKEP0923598
318	NORMALIZED	Production and Use of Normalized DNA Libraries	Completed	EP	97930172.8	EP0923598

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No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
319	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	EP	04024843.7	
320	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	ES	97930172.8	ES2248851T3
321	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	FI	97930172.8	EP0923598
322	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	FR	97930172.8	EP0923598
323	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	GB	923598	923598
324	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	GR	97930172.8	3055570
325	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	IE	97930172.8	EP0923598
326	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	IT	97930172.8	EP0923598
327	NORMALIZED	Production and Use of Normalized DNA Libraries	Granted	JP	10-503387	4227196
328	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	LU	97930172.8	EP0923598
329	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	MC	97930172.8	EP0923598
330	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	NL	0923598	EP0923598
331	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	PT	97930172.8	EP0923598

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
332	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	SE	97930172.8	EP0923598
333	NORMALIZED	Production and Use of Normalized DNA Libraries	Abandoned	US	08/665,565	5,763,239
334	NORMALIZED	Production and Use of Normalized DNA Libraries	Completed	WO	PCT/US97/010748	
335	SHUFFLING	Method of DNA Shuffling	Abandoned	AU	12765/99	
336	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Granted	CA	2,308,292	2,308,292
337	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	EP	98956185.7	
338	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	HK	01101112.0	
339	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	JP	2000-519091	
340	SHUFFLING	Method of DNA Shuffling	Granted	US	08/962,504	6,489,145

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
341	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Completed	WO	PCT/US98/022596	
342	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	AU	72417/00	
343	SHUFFLING	Method of DNA Shuffling With Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	AU	2004201987	
344	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	JP	2003-028596	
345	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	US	09/214,645	
346	SHUFFLING	Method of DNA Shuffling	Abandoned	AU	45900/02	
347	SHUFFLING	Method of DNA Shuffling	Abandoned	AU	2005202312	
348	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Granted	US	09/376,727	6,440,668

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
349	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	US	10/981,044	
350	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	US	10/218,131	
351	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Granted	AU	36626/97	724521
352	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	CA	2,259,628	
353	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	EP	97933438.0	
354	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	IL	127972	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
355	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Abandoned	JP	10-505366	
356	SHUFFLING	Method of DNA Reassembly by Interrupting Synthesis	Granted	US	08/677,112	5,965,408
357	SHUFFLING	Method of DNA Shuffling with Polynucleotides Produced by Blocking or Interrupting a Synthesis or Amplification Process	Completed	WO	PCT/US97/012239	
358	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	AU	2008282101	
359	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	BR	PI0815046-0	
360	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	CA	2693102	
361	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	CN	200880101253.0	
362	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	EA	201070206	
363	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Published	EP	08782567.5	
364	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	ID	W00201000635	
365	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	IL	202839	



No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
366	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	IN	4447/KOLNP/2009	
367	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	JP	2010-520191	
368	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	KR	10-2010-7003986	
369	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Published	MX	MX/a/2010/001182	
370	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	MY	PI 2010000396	
371	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	US	12/671,231	
372	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	NZ	582876	
373	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	PH	1-2010-500189	
374	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Completed	WO	PCT/US08/071771	
375	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Pending	ZA	2010/00152	
376	Tailored Multi-Site Combinatorial Assembly	Tailored Multi-Site Combinatorial Assembly	Expired	US	60/953,171	
377	UNCULTURED	Enzyme activity screening of clones having DNA from uncultivated microorganisms	Abandoned	US	08/568,994	
378	UNCULTURED	Enzyme kits and libraries	Granted	AU	69582/00	767618

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
379	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Abandoned	AU	2004200703	
380	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	US	08/983,367	6,168,919
381	UNCULTURED	Methods for Identifying a Desired Enzymatic Activity	Granted	US	09/467,740	6,656,677
382	UNCULTURED	Enzyme kits and libraries	Abandoned	US	09/753,752	
383	UNCULTURED	Enzyme kits and libraries	Granted	US	09/861,267	6,566,050
384	UNCULTURED	Enzyme kits and libraries	Abandoned	US	10/441,602	
385	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Abandoned	AT	96925351.7	EP 0839185
386	UNCULTURED	Enzyme kits and libraries	Abandoned	AU	65477/96	
387	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Abandoned	BE	96925351.7	EP 0839185
388	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Published	CA	2,227,342	
389	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	CH	96925351.7	EP 0839185
390	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Pending	CH	06009151.9	
391	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	DE	96925351.7	69636721.1
392	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Pending	DE	06009151.9	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
393	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	DK	96925351.7	EP 0839185
394	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	DK	06009151.9	1696025
395	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Completed	EP	96 925 351.7	EP 0839185
396	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	EP	06009151.9	1696025
397	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	ES	96925351.7	ES 0839185
398	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	FI	96925351.7	EP 0839185
399	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Pending	FI	06009151.9	
400	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	FR	96925351.7	EP 0839185
401	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Pending	FR	06009151.9	
402	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	GB	96925351.7	EP 0839185
403	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Pending	GB	06009151.9	
404	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Abandoned	GR	96925351.7	EP 0839185
405	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	IE	96925351.7	EP 0839185

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
406	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Pending	IE	06009151.9	
407	UNCULTURED	Enzyme kits and libraries	Abandoned	IL	122918	
408	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	IT	96925351.7	EP 0839185
409	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	IT	06009151.9	1696025
410	UNCULTURED	Enzyme kits and libraries	Abandoned	JP	09-506829	
411	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Abandoned	LU	96925351.7	EP 0839185
412	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Abandoned	MC	96925351.7	EP 0839185
413	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	NL	96925351.7	EP 0839185
414	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Pending	NL	06009151.9	
415	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Abandoned	PT	96925351.7	EP 0839185
416	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Granted	SE	96925351.7	EP 0839185
417	UNCULTURED	Screening Methods for Enzymes and Enzyme Kits	Pending	SE	06009151.9	
418	UNCULTURED	Enzyme kits and libraries	Granted	US	08/503,606	6,004,788
419	UNCULTURED	Enzyme kits and libraries	Completed	WO	PCT/US96/011854	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
420	UNCULTURED	Screening Methods And Libraries of Trace Amounts of DNA From Uncultivated Microorganisms	Expired	US	60/573,473	
421	UNCULTURED	Methods for Amplifying Trace Amounts of Nucleic Acids from Uncultivated or Uncultured Cells	Abandoned	US	11/134,852	
422	UNCULTURED	Screening Methods and Libraries of Trace Amounts of DNA From Uncultivated Microorganisms	Abandoned	WO	PCT/US04/024954	
423	UNCULTURED	Gene Expression Library Produced From DNA From Uncultivated Microorganisms and Methods for Making the Same	Granted	US	08/988,224	6,280,926
424	UNCULTURED	Gene Cluster Screening of Clones Having DNA from Mixed Populations of Organisms	Granted	US	09/407,525	6,849,395
425	UNCULTURED	Protein Activity Screening of Clones Having DNA from Uncultivated Microorganisms	Abandoned	US	09/421,629	
426	UNCULTURED	Protein Activity Screening of Clones Having DNA from Uncultivated Microorganisms	Granted	US	09/713,176	6,528,249
427	UNCULTURED	Protein Activity Screening of Clones Having DNA from Uncultivated Microorganisms	Granted	US	09/875,412	6,677,115

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
428	UNCULTURED	Protein Activity Screening of Clones Having DNA From Uncultivated Microorganisms	Abandoned	US	11/247,066	
429	UNCULTURED	Protein Activity Screening of Clones Having DNA from Uncultivated Microorganisms	Abandoned	US	10/364,731	
430	UNCULTURED	Protein Activity Screening of Clones Having DNA from Uncultivated Microorganisms	Abandoned	US	10/374,576	
431	UNCULTURED	Protein Activity Screening of Clones Having DNA from Uncultivated Microorganisms	Abandoned	US	10/633,248	
432	UNCULTURED	Protein Activity Screening of Clones Having DNA from Uncultivated Microorganisms	Granted	US	08/657,409	5,958,672
433	Water Treatment	WASTEWATER TREATMENT SYSTEM	Pending	US	12679182	
434	Water Treatment	Cellulosic Ethanol Wastewater Membrane Treatment	Pending	TH		
435	Water Treatment	Cellulosic Ethanol Wastewater Membrane Treatment	Published	TW	97135946	
436	Water Treatment	WASTEWATER TREATMENT SYSTEM	Completed	WO	PCT/US2008/010885	
437	Water Treatment	Cellulosic Ethanol Wastewater Membrane Treatment	Expired	US	60/974,006	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
438	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Abandoned	AU	2001-266978	
439	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Abandoned	CA	2,413,022	
440	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Abandoned	EP	01944583.2	
441	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Abandoned	JP	2002-510670	
442	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Granted	US	09/677,584	7,033,781

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
443	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Completed	WO	PCT/US01/019367	
444	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Abandoned	AU	2002211402	
445	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Abandoned	CA	2,424,178	
446	WHOLE CELL		Closed	CH	EP01979431.2	
447	WHOLE CELL		Closed	DE	EP01979431.2	
448	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Abandoned	EP	01979431.2	
449	WHOLE CELL		Closed	FR	EP01979431.2	



No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
450	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Abandoned	IL	155154	
451	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Abandoned	JP	2002-532602	
452	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Converted	US	60/279,702	
453	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Abandoned	US	10/398,271	
454	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Completed	WO	PCT/US01/031004	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
455	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Expired	US	60/366,438	
456	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Abandoned	US	10/383,798	
457	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Converted	US	60/156,815	
458	WHOLE CELL	HOLISTIC ENGINEERING OF DIFFERENTIALLY ACTIVATABLE STACKED TRAITS IN NOVEL TRANSGENIC PLANTS USING DIRECTED EVOLUTION AND WHOLE CELL MONITORING	Completed	WO	PCT/US00/027063	
459	WHOLE CELL	Whole Cell Engineering Using Metabolic Flux Analysis	Converted	US	60/326,653	

No.	Family Name	Application Title	Application Status	Country	Application Number	Patent Number
460	WHOLE CELL	Cellular Engineering, Protein Expression Profiling, Differential Labeling of Peptides, and Novel Reagents Therefor	Converted	US	60/326,654	
461	Fluorescent Proteins	Fluorescent Proteins, Nucleic Acids Encoding Them and Methods For Making and Using Them	Converted	US	60/397,684	
462	Fluorescent Proteins	Fluorescent Proteins, Nucleic Acids Encoding Them and Methods For Making and Using Them	Abandoned	EP	03765950.5	
463	Fluorescent Proteins	Fluorescent Proteins, Nucleic Acids Encoding Them and Methods For Making and Using Them	Published	US	10/624,909	
464	Fluorescent Proteins	Fluorescent Proteins, Nucleic Acids Encoding Them and Methods For Making and Using Them	Completed	WO	PCT/US03/022951	
465	EXTRACT SCREENING	Screening for Novel Bioactivities	Abandoned	AU	15407/02	
466	EXTRACT SCREENING	Screening for Novel Bioactivities	Abandoned	AU	2005200173	
467	EXTRACT SCREENING	Screening for Novel Bioactivities	Granted	US	09/561,597	6,555,315
468	EXTRACT SCREENING	Screening for Novel Bioactivities	Abandoned	US	10/423,231	
469	EXTRACT SCREENING	Screening for Novel Bioactivities	Abandoned	AU	89231/98	741139
470	EXTRACT SCREENING	Screening for Novel Bioactivities	Abandoned	CA	2,301,601	
471	EXTRACT SCREENING	Screening for Novel Bioactivities	Abandoned	EP	98941088.1	
472	EXTRACT SCREENING	Screening for Novel Bioactivities	Abandoned	HK	01100897.3	
473	EXTRACT SCREENING	Screening for Novel Bioactivities	Abandoned	JP	2000-507845	

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474	EXTRACT SCREENING	Screening for Novel Bioactivities	Abandoned	JP	2005-001783	
475	EXTRACT SCREENING	Screening for Novel Bioactivities	Granted	US	08/918,406	6,057,103
476	EXTRACT SCREENING	Screening for Novel Bioactivities	Completed	WO	PCT/US98/017779	

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