

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3648896

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
OVONYX, INC.	07/31/2015
RECEIVING PARTY DATA	
Name:	CARLOW INNOVATIONS LLC
Street Address:	1940 DUKE STREET
Internal Address:	SUITE 200
City:	ALEXANDRIA
State/Country:	VIRGINIA
Postal Code:	22314
PROPERTY NUMBERS Total: 312	
Property Type	Number
Patent Number:	RE37259
Patent Number:	5933365
Patent Number:	5912839
Patent Number:	6141241
Patent Number:	6969866
Patent Number:	6617192
Patent Number:	6943365
Patent Number:	6750079
Patent Number:	6815705
Patent Number:	6613604
Patent Number:	6774387
Patent Number:	7365354
Patent Number:	7045383
Patent Number:	6764897
Patent Number:	7407829
Patent Number:	6927093
Patent Number:	7023009
Patent Number:	7576350
Patent Number:	6972428

PATENT

Property Type	Number
Patent Number:	7253429
Patent Number:	7092286
Patent Number:	7473574
Patent Number:	7902536
Patent Number:	7723715
Patent Number:	7833823
Patent Number:	7952087
Patent Number:	8089059
Patent Number:	8581223
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Patent Number:	6075719
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Patent Number:	6992369
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Property Type	Number
Patent Number:	7978506
Patent Number:	7391045
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Patent Number:	7923724

Property Type	Number
Patent Number:	8363446
Patent Number:	8178385
Patent Number:	8685291
Application Number:	12626988
Patent Number:	6992365
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Patent Number:	6696355

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Patent Number:	8098512
Application Number:	12756392
Patent Number:	7338857
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Patent Number:	8861293
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Application Number:	14512545
Application Number:	14672332
Application Number:	12082137
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Patent Number:	7372166
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Patent Number:	7227765
Patent Number:	7203087
Patent Number:	7122824
Patent Number:	7618840
Patent Number:	6754107

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Patent Number:	6944041
Patent Number:	7965541
Patent Number:	8441836
Patent Number:	8767440
Patent Number:	8222625
Application Number:	14791461
Application Number:	14791463

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 3122411516

Email: vfrantz@giplg.com

Correspondent Name: VINCENT FRANTZ

Address Line 1: 55 W MONROE STREET

Address Line 2: SUITE 3400

Address Line 4: CHICAGO, ILLINOIS 60603

NAME OF SUBMITTER:	VINCENT FRANTZ
---------------------------	----------------

SIGNATURE:	/s/ Vincent Frantz
DATE SIGNED:	12/08/2015
Total Attachments: 15 source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page1.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page2.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page3.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page4.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page5.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page6.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page7.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page8.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page9.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page10.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page11.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page12.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page13.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page14.tif source=Ovonyx, Inc. - Carlow Innovations LLC Assignment#page15.tif	

EXHIBIT A

CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS

This Confirmatory Assignment of Patent Rights (the "Confirmation") is entered into this July 31, 2015, by and between Ovonyx, Inc., a Nevada corporation, ("Assignor"), and Carlow Innovations LLC, a Virginia limited liability company, ("Assignee").

WHEREAS, Assignor and Assignee are party to that certain Asset Sale and Transfer Agreement dated on or about the date hereof (as in effect from time to time, the "Asset Sale and Transfer Agreement"); capitalized terms used but not otherwise defined in this Confirmation shall have the respective meaning assigned thereto in the Asset Sale and Transfer Agreement;

WHEREAS, pursuant to the Asset Sale and Transfer Agreement, Assignor has agreed to sell, convey, transfer, assign and deliver to Assignee all of Assignor's (and its Subsidiaries') right, title and interest, including Patent Rights, in and to the Patents listed on Schedule A hereto (collectively, the "Transferred Patents");

WHEREAS, Assignee is now desirous of acquiring the entire and exclusive right, title and interest in and to the Transferred Patents in the United States and throughout the world; and

WHEREAS, Assignor is now willing to assign to Assignee all rights, title and interest in and to the Transferred Patents in the United States and throughout the world; and

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor hereby assigns, transfers and conveys to Assignee, its successors, legal representatives and assigns, and Assignee hereby accepts, all of Assignor's right, title and interest in the United States and throughout the world in and to the Transferred Patents and any and all Letters Patent that are or may be granted thereon, and any legal equivalent thereof that may be granted in any country or countries foreign to the United States, in each case including without limitation any extensions, substitutes, continuations, continuations-in-part, divisions, reissues, reexaminations, and renewals thereof, or other equivalents thereof, and further, all rights and privileges pertaining to the Transferred Patents and any and all Letters Patent that are or may be granted thereon, and any legal equivalent thereof that may be granted in any country or countries foreign to the United States, including, without limitation, the right, if any, to petition, sue or otherwise seek and recover damages, profits and any other remedy (monetary, injunctive, declaratory or other) in the United States and anywhere throughout the world for any past, present and future infringement thereof, conversion or misappropriation of, or other injury, offense, violation, breach of duty or wrong relating to, any of the Transferred Patents, or any license, agreement, contract or other matter relating thereto.

Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States of America and the appropriate officers of all other jurisdictions in which the Transferred Patents are or may be registered or in which applications included among the Transferred Patents are pending, to record the title of Assignee, its successors, legal representatives and assigns, as owner of all right, title and interest in and to the Transferred

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Patents, and to issue to Assignee, its successors, legal representatives and assigns, all Letters Patent and any legal equivalent thereof that may be granted in any country or countries foreign to the United States and recordations of patent rights resulting from any application included among the Transferred Patents, in accordance with the terms of this instrument.

Except to the extent that federal law preempts state law with respect to the matters covered hereby, this Confirmation shall be governed by and construed in accordance with the laws of the State of Delaware, without giving effect to any of the principles of conflicts of laws thereof that would result in the application of the laws of another jurisdiction to this Confirmation.

This Confirmation shall be binding on, and shall inure to the benefit of, the parties hereto and their respective successors and assigns, and may be executed in two or more counterparts, each of which shall be deemed to be an original, but all of which shall constitute one and the same agreement. Each of the parties hereto agrees to accept and be bound by facsimile signatures hereto.

Each party represents that it has taken all necessary action to authorize the execution and delivery of this Confirmation.

[The remainder of this page has been intentionally left blank.]

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IN WITNESS WHEREOF, the parties hereto have caused this Confirmation to be executed by their respective duly authorized officers, as of the date first written above.

ASSIGNOR:

Ovonyx, Inc.

By: Tyler Lowrey

Name: TYLER LOWREY

Title: CEO

ASSIGNEE:

Carlou Innovations, LLC

By: Steven Stelzer

Name: STEVEN STELZER

Title: MEMBER

On this 31ST day of July, 2015, before me appeared Tyler Lowrey, the person who signed this instrument, who acknowledged that he/she signed it as a free act on his/her own behalf or on behalf of the Assignor with authority to do so.

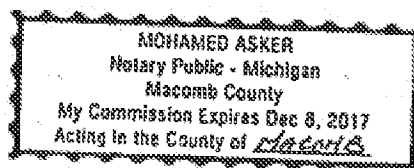
State of MICHIGAN)

)

ss.)

County of MACOMB)

)



[Note that federal patent assignments must also include a cover sheet. See 37 C.F.R. 3.28]

SCHEDULE A

PATENTS

Family	Case Number	Status	Country	Owner	Application Number	Patent Number	Filing Date
1	2024.10	Granted	JP		9-507656	4303318	19-Jul-96
1	2024.10	Granted	KR		10-1998-0700584	10-0379322	19-Jul-96
2	2024.13	Granted	US	Ovonyx	09/436367	RE37259	19-Apr-96
3	2024.14	Granted	TW		87109811	127898	19-Jun-97
3	2024.14	Granted	US	Ovonyx	08/878870	5933365	19-Jun-97
4	2024.16	Granted	US	Ovonyx	09/102887	5912839	23-Jun-98
4	2024.18	Granted	US	Ovonyx	09/289713	6141241	12-Apr-99
5	2024.17	Granted	US	Ovonyx	09/276273	6969866	25-Mar-99
5	2024.17	Granted	CN		808043.7	ZL00808043.7	22-Mar-00
5	2024.17	Granted	JP	Ovonyx	2000-807287	4558950	22-Mar-00
5	2024.17	Granted	KR	Ovonyx	1020017012157	441692	22-Mar-00
5	2024.17	Granted	TW	Ovonyx	89105608	150879	21-Apr-00
5	2024.22	Granted	US	Ovonyx	09/677957	6617192	3-Oct-00
5	2024.24	Granted	US	Ovonyx	09/813267	6943365	20-Mar-01
5	2024.27	Granted	US	BAE/Ovonyx	09/891157	6750079	26-Jun-2001
5	2024.25	Granted	US	Ovonyx	09/921038	6815705	2-Aug-01
5	2024.21-27	Granted	TW	Ovonyx	90120438	189346	21-Aug-01
5	2024.28	Granted	US	BAE/Ovonyx	09/955408	6613604	19-Sep-2001
5	2024.30	Granted	US	BAE/Ovonyx	10/072,369	6774387	08-Feb-2002
5	2024.37	Granted	US	BAE/Ovonyx	10/308399	7365354	02-Dec-2002
5	2024.38	Granted	US	BAE/Ovonyx	10/396,587	7045383	24-Mar-2003
5	2024.43	Granted	US	Ovonyx	10/649562	6764897	26-Aug-03
5	2024.46	Granted	US	Ovonyx	10/799265	7407829	12-Mar-04
5	2024.47	Granted	US	BAE/Ovonyx	10/801414	6927093	16-Mar-2004
5	2024.48	Granted	US	Ovonyx	10/848999	7023009	19-May-04
5	2024.49	Granted	US	Ovonyx	10/891970	7576350	15-Jul-04
5	2024.50	Granted	US	BAE/Ovonyx	10/914480	6972428	09-Aug-2004
5	2024.53	Granted	US	Ovonyx	10/981826	7253429	5-Nov-04
5	2024.62	Granted	US	Ovonyx	11/221627	7092286	8-Sep-05
5	2024.67	Granted	US	Ovonyx	11/394433	7473574	1-Apr-06
5	OVON#67	Granted	US	Ovonyx	11/495927	7902536	28-Jul-06
5	ELP#8	Granted	US	Ovonyx	11/602923	7723715	21-Nov-2006
5	2024.36_D1	Granted	US	Ovonyx	12/069,046	7833823	7-Feb-08
5	2024.99	Granted	US	Ovonyx	12/152330	7952087	14-May-2008
5	2024.38_D2	Granted	US	Ovonyx	12/944312	8089059	11-Nov-10
5	OVON#67	Granted	US	Ovonyx	13/039952	8581223	3-Mar-11
5	2024.99_1	Granted	US	Ovonyx	13/093109	8344350	25-Apr-2011
6	2024.19	Granted	US	Ovonyx	09/337778	6075719	22-Jun-99
6	2024.19	Granted	JP	Ovonyx	2001-505018	4641692	13-Jun-00
6	2024.19	Granted	TW	Ovonyx	89111778	150511	16-Jun-00
7	2024.20	Granted	US	Ovonyx	09/464898	6314014	16-Dec-99
7	2024.29	Granted	US	Ovonyx	09/974590	6608773	10-Oct-01
8	2024.32	Granted	US	Ovonyx	10/137476	6781860	1-May-02
9	2024.33	Granted	US	Ovonyx	10/215315	6872963	8-Aug-02

PATENT

REEL: 037244 FRAME: 0967

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Family	Case Number	Status	Country	Owner	Application Number	Patent Number	Filing Date
9	2024.40	Granted	US	Ovonyx	10/442877	7129531	21-May-03
10	2024.34	Granted	US	Ovonyx	10/254489	6778420	25-Sep-02
11	2024.35	Granted	US	Ovonyx	10/252628	6831856	23-Sep-02
11	2024.45	Granted	US	Ovonyx	10/755169	6859390	9-Jan-04
12	2024.39	Granted	US	Ovonyx	10/437134	6914801	13-May-03
13	2024.41	Granted	US	Ovonyx	10/459632	6987688	11-Jun-03
13	2024.55	Granted	US	Ovonyx	11/012571	7365355	15-Dec-04
13	ITO.0608US	Granted	US	Ovonyx	11/158,619	7,426,135	22-Jun-2005
13	2024.60	Granted	US	Ovonyx	11/209079	7646630	22-Aug-05
13	2024.63	Granted	US	Ovonyx	11/229955	7663907	19-Sep-05
13	2024.54	Granted	TW	Ovonyx	94139002	1463651	7-Nov-05
13	2024.61	Granted	US	Ovonyx	11/318789	7499315	24-Dec-05
13	2024.61	Granted	TW	Ovonyx	95148306	1470628	22-Dec-06
13	2024.55C	Granted	US	Ovonyx	12/069092	7706178	6-Feb-08
13	2024.61 C1	Granted	US	Ovonyx	12/286784	7839674	2-Oct-08
13	2024.60_1	Granted	US	Ovonyx	12/640723	8379439	17-Dec-09
13	2024.61	Pending	TW	Ovonyx	103111610		28-Mar-14
14	2024.42	Granted	US	Ovonyx	10/681781	6992369	8-Oct-03
14	2024.66	Granted	US	Ovonyx	11/339868	7459762	26-Jan-06
15	2024.51	Granted	US	Ovonyx	10/956555	7423897	1-Oct-04
15	2024.74	Granted	US	Ovonyx	11/524670	7339815	21-Sep-06
16	2024.52	Granted	US	Ovonyx	10/960263	7327602	7-Oct-04
17	2024.70	Granted	US	Ovonyx	11/501255	7838864	8-Aug-06
17	2024.70_D1	Granted	US	Ovonyx	12/564386	8716056	22-Sep-09
17	2024.70_D2	Granted	US	Ovonyx	12/585224	8373151	23-Sep-09
18	2024.72	Granted	US	Ovonyx	11/724485	7969769	15-Mar-07
18	OVX-3	Granted	US	Ovonyx	12/157049	7978506	6-Jun-08
19	2024.73	Granted	US	Ovonyx	11/522584	7391045	18-Sep-06
19	2024.73D1	Granted	US	Ovonyx	12/152557	7763879	15-May-08
19	2024.73D2	Granted	US	Ovonyx	12/834352	8093577	12-Jul-10
20	2024.76	Granted	US	Ovonyx	11/880587	7566643	23-Jul-07
20	2024.87	Granted	US	Ovonyx	12/075180	7994034	10-Mar-08
20	2024.97	Pending	KR	Ovonyx	2010-7026584		26-Nov-10
21	2024.78	Granted	US	Ovonyx	11/983098	7778064	7-Nov-07
21	2024.78C1	Granted	US	Ovonyx	12/574005	8120943	6-Oct-09
22	2024.79	Granted	US	Ovonyx	11/981343	8098517	31-Oct-07
23	2024.81	Granted	US	Ovonyx	11/983026	7964861	6-Nov-07
23	2024.81_2	Granted	US	Ovonyx	13/163783	8569729	20-Jun-11
24	2024.82	Granted	US	Ovonyx	11/977520	7967994	25-Oct-07
25	2024.83	Granted	US	Ovonyx	11/999158	7718990	4-Dec-07
25	2024.83	Granted	TW	Ovonyx	97146858	1470847	3-Dec-08
25	2024.83_1	Granted	US	Ovonyx	12/780966	7935567	17-May-10
25	2024.83	Granted	KR	Ovonyx	2010-7014581	1006218	30-Jun-10
26	2024.84	Granted	US	Ovonyx	11/999419	7817475	5-Dec-07
27	2024.86	Granted	US	Ovonyx	12/006391	7466584	2-Jan-08
28	2024.91	Granted	US	Ovonyx	12/075913	7838341	14-Mar-08
28	2024.91_1	Granted	US	Ovonyx	12/908406	8067761	20-Oct-10
29	2024.92	Granted	US	Ovonyx	12/070682	8194433	20-Feb-08

PATENT**REEL: 037244 FRAME: 0968**

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Family	Case Number	Status	Country	Owner	Application Number	Patent Number	Filing Date
29	2024.92	Pending	CN		200980000000		18-Feb-09
29	2024.92	Pending	TW	Ovonyx	98105200		19-Feb-09
29	2024.92	Pending	KR	Ovonyx	2010-7020780		16-Sep-10
30	2024.93	Granted	US	Ovonyx	12/072411	8203872	26-Feb-08
30	2024.95	Granted	US	Ovonyx	12/075665	7808807	13-Mar-08
30	2024.93	Pending	TW	Ovonyx	98105892		25-Feb-09
30	2024.93	Granted	JP	Ovonyx	2010-548674	5520842	25-Aug-10
30	2024.93	Pending	KR	Ovonyx	10-2010-7021346		24-Sep-10
31	2024.98	Pending	KR	Ovonyx	10-2010-7026585		26-Nov-10
32	2046	Granted	US	Ovonyx	08/547349	5714768	24-Oct-95
32	2046	Granted	JP		9516747	4303317	22-Oct-96
32	2046	Granted	KR	Ovonyx	10-1998-0702975	10-0433618	22-Oct-96
32	2046.1	Granted	KR	Ovonyx	10-2003-7013850	474530	23-Oct-03
33	2054	Granted	US	Ovonyx	08/739080	5825046	28-Oct-96
33	2054	Granted	DE		97911035	EP094700581	27-Oct-97
33	2054	Granted	JP		10-519794	4933687	27-Oct-97
33	2054.1	Granted	US	Ovonyx	09/063174	6087674	20-Apr-98
33	OVON#97	Granted	US	Ovonyx	11/874719	7935951	18-Oct-07
34	2103	Granted	CN		ZL200680009843.1	1011801358	5-Jan-06
34	2103_DIV	Pending	CN		201010139378.1		5-Jan-06
34	2103	Granted	KR	Ovonyx	10-2007-7019661	10-1254157	5-Jan-06
34	2103	Pending	TW	Ovonyx	95103242		27-Jan-06
34	2103	Granted	US	Ovonyx	12/284425	7858152	22-Sep-08
34	2103	Granted	KR	Ovonyx	10-2012-7021257	10-1376679	13-Aug-12
35	OCC-001	Granted	US	Ovonyx	10/144319	6671710	10-May-02
35	OCC-002	Granted	US	Ovonyx	10/155527	6714954	24-May-02
35	OCC-002.1	Granted	US	Ovonyx	10/726785	7440990	3-Dec-03
36	OCC-003	Granted	US	Ovonyx	10/189749	6999953	3-Jul-02
37	OCC-004	Granted	US	Ovonyx	10/384994	6967344	10-Mar-03
37	OCC-005	Granted	US	Ovonyx	10/426321	6969867	30-Apr-03
37	OCC-006	Granted	US	Ovonyx	10/657285	7227170	8-Sep-03
37	OCC-007	Granted	US	Ovonyx	10/761022	7186998	20-Jan-04
37	OCC-004	Granted	CN		200480012365.0	ZL200480012365.0	4-Feb-04
37	OCC-004	Granted	DE		EP04708160.9	EP1636825B1	4-Feb-04
37	OCC-004	Granted	FR		EP04708160.9	EP1636825B1	4-Feb-04
37	OCC-004	Granted	GB		EP04708160.9	EP1636825B1	4-Feb-04
37	OCC-004	Granted	JP		2006-508859	5398002	4-Feb-04
37	OCC-004	Granted	KR		10-2005-7018961	10-1056078	4-Feb-04
37	OCC-008	Granted	US	Ovonyx	10/775431	7085155	10-Feb-04
37	OCC-004	Granted	TW		93106103	1257724	9-Mar-04
37	OCC-006.2	Granted	US	Ovonyx	11/339889	7227221	26-Jan-06
37	OCC-007.1	Granted	US	Ovonyx	11/451740	7529123	13-Jun-06
38	OCC-009	Granted	US	Ovonyx	11/064637	7186999	24-Feb-05
39	OCC-0010	Granted	US	Ovonyx	11/438709	7547908	22-May-06
39	OCC-0010.1	Granted	US	Ovonyx	11/446798	7754603	5-Jun-06
40	OVON#62	Granted	US	Ovonyx	11/448184	7473950	7-Jun-06
40	OVON#62	Granted	KR		10-2008-7028443	10-1431163	20-Nov-08
40	OVX-19	Granted	US	Ovonyx	12/348979	7943922	6-Jan-09

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40	OVON#82	Pending	KR		2013-7022712		28-Aug-13
41	OVON#69	Granted	US	Ovonyx	11/849832	7906772	4-Sep-07
41	OVON#69	Granted	US	Ovonyx	13/041955	8440501	7-Mar-11
42	OVON#75	Granted	US	Ovonyx	11/871761	9000408	12-Oct-07
43	OVON#79	Granted	US	Ovonyx	12/244421	8344348	2-Oct-08
44	OVON#84	Granted	US	Ovonyx	11/871786	7755074	12-Oct-07
45	OVON#94	Granted	US	Ovonyx	12/044407	8269208	7-Mar-08
45	OVON#94_1	Granted	US	Ovonyx	13/590085	8796101	20-Aug-12
46	OVX.0003	Granted	US	Ovonyx	11/341,983	7,471,554	27-Jan-2006
47	OVX.0004	Pending	CN		200780020932.0		24-Apr-2007
47	OVX.0004U1	Granted	TW		102222988	M480148	6-Dec-2013
48	OVX-4	Granted	US	Ovonyx	12/157001	8228719	6-Jun-08
49	OVX-5	Granted	US	Ovonyx	12/156998	7859895	6-Jun-08
50	OVX-6	Granted	US	Ovonyx	12/157083	8363458	6-Jun-08
51	OVX-7	Granted	US	Ovonyx	12/157045	7839673	6-Jun-08
51	OVX-7_1	Granted	US	Ovonyx	12/909113	7974149	21-Oct-10
52	OVX-8	Granted	US	Ovonyx	12/156996	8053753	5-Jun-04
52	OVX-8_1	Granted	US	Ovonyx	13/291127	8198158	8-Nov-11
53	OVX-9	Granted	US	Ovonyx	12/157076	7920414	6-Jun-08
54	OVX-10	Granted	US	Ovonyx	12/214144	8223580	17-Jun-08
54	OVX-10_1	Granted	US	Ovonyx	13/549436	9076521	14-Jul-12
54	OVX-10_2	Granted	US	Ovonyx	13/549437	8773941	14-Jul-12
55	OVX-12	Granted	US	Ovonyx	12/229997	8351250	28-Aug-08
56	OVX-13	Pending	TW	Ovonyx	98130152		8-Sep-09
57	OVX-14	Granted	US	Ovonyx	12/287986	7961495	15-Oct-08
57	OVX-14_1	Granted	US	Ovonyx	13/158531	8503219	13-Jun-11
57	OVX-14_2	Granted	US	Ovonyx	13/958538	8755216	3-Aug-13
58	OVX-15	Granted	US	Ovonyx	12/291111	8120940	6-Nov-08
59	OVX-16	Granted	US	Ovonyx	12/269901	8111546	13-Nov-08
60	OVX-17	Granted	US	Ovonyx	12/356236	7978508	20-Jan-09
61	OVX-18	Granted	US	Ovonyx	12/321223	8009455	19-Jan-05
61	OVX-18_1	Granted	US	Ovonyx	13/216675	8908413	24-Aug-11
62	OVX-22	Granted	US	Ovonyx	12/381259	7957207	10-Mar-09
62	OVX-22_1	Granted	US	Ovonyx	13/104062	8792270	10-May-11
63	OVX-23	Granted	US	Ovonyx	12/383489	8183565	25-Mar-09
64	OVX-26	Granted	US	Ovonyx	12/471937	8350661	26-May-09
65	OVX-28	Granted	US	Ovonyx	12/505854	8217379	20-Jul-09
66	ITO.0588US	Granted	US	Ovonyx	11/032,345	7,923,724	10-Jan-2005
66	OVX-29	Granted	US	Ovonyx	12/578638	8363446	14-Oct-09
66	ITO.0588D1US	Granted	US	Ovonyx	13/042,681	8,178,385	8-Mar-2011
67	OVX-30	Granted	US	Ovonyx	12/775078	8685291	6-May-10
67	OVX-30P	Granted	JP	Ovonyx	2010-229499	5698949	12-Oct-10
67	OVX-30P	Pending	KR	Ovonyx	10-2010-0100006		13-Oct-10
68	OVX-32	Pending	US	Ovonyx	12/626988		30-Nov-09
69	ITO.0504US	Granted	US	Ovonyx	09/976,641	6,992,365	12-Oct-2001
69	ITO.0504D1US	Granted	US	Ovonyx	11/272,308	7,906,391	10-Nov-2005
70	ITO.0505US	Granted	US	Ovonyx (US) Intel (Foreign)	09/975,272	6,566,700	11-Oct-2001

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70	ITO.0505D1US	Granted	US	Ovonyx (US)	10/384,667	6,869,841	11-Mar-2003
71	ITO.0506US	Granted	US	Intel (Foreign)	09/944,478	6,764,894	31-Aug-2001
71	ITO.0506JP	Granted	JP	Ovonyx	2003525922	4150667	20-Aug-2002
71	ITO.0506KR	Granted	KR		10-2004-7002594	534530	20-Aug-2002
71	ITO.0506TW	Granted	TW		91118923	198917	21-Aug-2002
71	ITO.0506D1US	Granted	US	Ovonyx	10/839,311	7,326,952	5-May-2004
72	ITO.0508US	Granted	US	Ovonyx	09/975,163	6,800,563	11-Oct-2001
72	ITO.0508D1US	Granted	US	Ovonyx	10/839,499	6,933,516	5-May-2004
72	ITO.0508D2US	Granted	US	Ovonyx	11/102,998	7,422,917	11-Apr-2005
73	ITO.0510US	Granted	US	Ovonyx	10/021,469	6,545,907	30-Oct-2001
73	ITO.0510CN	Granted	CN		02826572.6	16109528	21-Aug-2002
73	ITO.0510KR	Granted	KR		10-2004-7006453	586351	21-Aug-2002
73	ITO.0510TW	Granted	TW		91119854	222064	30-Aug-2002
74	ITO.0513US	Granted	US	Ovonyx	10/020,757	7,319,057	30-Oct-2001
75	ITO.0516US	Granted	US	Ovonyx	10/036,833	6,885,021	31-Dec-2001
76	ITO.0518US	Granted	US	Ovonyx	10/318,704	6,995,446	13-Dec-2002
77	ITO.0521US	Granted	US	Ovonyx	10/318,705	6,912,146	13-Dec-2002
77	ITO.0521CN	Granted	CN		3825590.1	ZL03825590.1	28-Apr-2003
77	ITO.0521KR	Granted	KR		10-2005-7010564	10-0826427	28-Apr-2003
77	ITO.0521TW	Granted	TW		92112427	I253078	7-May-2003
77	ITO.0521MY	Granted	MY		PI20031760	MY134505	12-May-2003
78	ITO.0523US	Granted	US	Ovonyx	10/319,214	6,869,883	13-Dec-2002
78	ITO.0523CN	Granted	CN		03825593.6	100442390	28-Apr-2003
78	ITO.0523JP	Granted	JP		2004-560261	4873859	28-Apr-2003
78	ITO.0523KR	Granted	KR		10-2005-7010538	10-0829680	28-Apr-2003
78	ITO.0523TW	Granted	TW		92112718	I286750	9-May-2003
78	ITO.0523MY	Granted	MY		PI20031761	MY1357198	12-May-2003
78	ITO.0523D1US	Granted	US	Ovonyx	11/013,036	7,196,351	15-Dec-2004
78	ITO.0523D2US	Granted	US	Ovonyx	11/706,000	7,348,620	13-Feb-2007
79	ITO.0525US	Granted	US	Ovonyx	10/319,179	7,049,623	13-Dec-2002
79	ITO.0525CN	Granted	CN		03825591.X	ZL03825591.X	28-Apr-2003
79	ITO.0525JP	Granted	JP	Ovonyx	2004-560263	4446891	28-Apr-2003
79	ITO.0525KR	Granted	KR		10-2005-7010563	10-0869312	28-Apr-2003
79	ITO.0525TW	Granted	TW		92112708	I286750	9-May-2003
79	ITO.0525MY	Granted	MY		PI20031877	MY-135,245-A	21-May-2003
79	ITO.0525D1US	Granted	US	Ovonyx	11/270,909	7,364,937	10-Nov-2005
80	ITO.0526US	Granted	US	Ovonyx	09/896,529	6,511,867	30-Jun-2001
80	ITO.0526KR	Granted	KR		10-2005-7002832	10-0676342	21-Aug-2002
80	ITO.0526TW	Granted	TW		91119537	586147	28-Aug-2002
80	ITO.0526D1US	Granted	US	Ovonyx	10/313,785	6,919,578	5-Dec-2002
81	ITO.0527US	Granted	US	Ovonyx	09/896,616	6,747,286	30-Jun-2001
81	ITO.0527D1US	Granted	US	Ovonyx	10/738,804	6,841,397	17-Dec-2003
81	ITO.0527D2US	Granted	US	Ovonyx	10/958,613	6,961,258	5-Oct-2004
82	ITO.0528US	Granted	US	Ovonyx	10/034,331	6,667,900	28-Dec-2001
82	ITO.0528JP	Granted	JP		2003558857	4241384	21-Aug-2002
82	ITO.0528KR	Granted	KR		10-2004-7009198	10-0614453	21-Aug-2002
82	ITO.0528TW	Granted	TW		91119688	I263217	29-Aug-2002

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83	ITO.0529US	Granted	US	Ovonyx	09/675,285	6,567,293	29-Sep-2000
83	ITO.0529P1US	Granted	US	Ovonyx	09/774,353	6,757,190	30-Jan-2001
83	ITO.0529KR	Granted	KR		10-2004-7012908	10-0603558	22-Feb-2002
83	ITO.0529C1US	Granted	US	Ovonyx	10/281,337	6,836,423	25-Oct-2002
83	ITO.0529D1US	Granted	US	Ovonyx	10/389,114	7,223,688	14-Mar-2003
83	ITO.0529D2US	Granted	US	Ovonyx	10/838,966	7,157,304	5-May-2004
84	ITO.0530US	Granted	US	Ovonyx	09/895,135	6,570,784	29-Jun-2001
84	ITO.0530TW-2	Granted	TW		91113634	I225652	21-Jun-2002
84	ITO.0530CN	Granted	CN		2829578.1	ZL02829578.1	11-Sep-2002
84	ITO.0530DE	Granted	DE		10297786.0	DE10297786B4	11-Sep-2002
84	ITO.0530EP	Pending	Europe		2761617.6		11-Sep-2002
84	ITO.0530JP	Granted	JP		5353622004	4094006	11-Sep-2002
84	ITO.0530KR	Granted	KR		10-2005-7004276	10-0650098	11-Sep-2002
84	ITO.0530D1US	Granted	US	Ovonyx	10/404,171	6,687,153	1-Apr-2003
85	ITO.0531US	Granted	US	Ovonyx	09/881,439	6,480,438	12-Jun-2001
86	ITO.0532US	Granted	US	Ovonyx	09/737,363	6,696,355	14-Dec-2000
86	ITO.0532D1US	Granted	US	Ovonyx	10/679,637	7,005,666	6-Oct-2003
87	ITO.0533US	Granted	US	Ovonyx	09/675,803	6,404,665	29-Sep-2000
87	ITO.0533P1US	Granted	US	Ovonyx	09/780,805	6,563,164	8-Feb-2001
87	ITO.0533D1US	Granted	US	Ovonyx	10/371,253	6,878,618	20-Feb-2003
88	ITO.0534US	Granted	US	Ovonyx	09/751,485	6,531,373	27-Dec-2000
88	ITO.0534D1US	Granted	US	Ovonyx	10/336,171	6,791,107	3-Jan-2003
89	ITO.0535US	Granted	US	Ovonyx	09/749,126	6,534,781	26-Dec-2000
89	ITO.0535D1US	Granted	US	Ovonyx	10/196,870	6,593,176	15-Jul-2002
90	ITO.0536US	Granted	US	Ovonyx	09/676,317	6,339,544	29-Sep-2000
90	ITO.0536C1US	Granted	US	Ovonyx	09/944,349	6,621,095	29-Aug-2001
90	ITO.0536D1US	Granted	US	Ovonyx	10/611,600	6,770,524	1-Jul-2003
91	ITO.0537US	Granted	US	Ovonyx	09/895,020	6,673,700	30-Jun-2001
92	ITO.0538US	Granted	US	Ovonyx	09/896,009	6,511,862	30-Jun-2001
92	ITO.0538D1US	Granted	US	Ovonyx	10/310,603	6,774,388	5-Dec-2002
92	ITO.0538D2US	Granted	US	Ovonyx	10/864,232	6,917,052	9-Jun-2004
93	ITO.0539US	Granted	US	Ovonyx	09/749,127	6,646,297	26-Dec-2000
93	ITO.0539D1US	Granted	US	Ovonyx	10/652,631	6,969,633	29-Aug-2003
94	ITO.0540US	Granted	US	Ovonyx	09/895,054	6,487,113	29-Jun-2001
95	ITO.0541US	Granted	US	Ovonyx	10/319,756	6,813,177	13-Dec-2002
95	ITO.0541CN	Granted	CN		3825592.8	ZL03825592.8	29-Apr-2003
95	ITO.0541D1JP	Granted	JP		2008-251427	5478861	29-Apr-2003
95	ITO.0541JP	Granted	JP		560264/2004	4295223	29-Apr-2003
95	ITO.0541KR	Granted	KR		10-2005-7010781	10-0674533	29-Apr-2003
95	ITO.0541TW	Granted	TW		92112429	I232448	7-May-2003
95	ITO.0541MY	Granted	MY		PI20031759	MY-141906-A	12-May-2003
96	ITO.0542US	Granted	US	Ovonyx	10/319,769	6,795,338	13-Dec-2002
96	ITO.0542CN	Granted	CN		3825609.6	ZL03825609.6	22-May-2003
96	ITO.0542JP	Pending	JP		2004560268		22-May-2003
96	ITO.0542KR	Granted	KR		10-2005-7010582	10-0669313	22-May-2003
96	ITO.0542TW	Granted	TW		92114451	I237315	28-May-2003
96	ITO.0542MY	Granted	MY		PI20032163	MY-133,250-A	10-Jun-2003
97	ITO.0543US	Granted	US	Ovonyx	10/319,741	7,314,776	13-Dec-2002

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97	ITO.0543D1US	Granted	US	Ovonyx	11/983,188	7,803,655	7-Nov-2007
98	ITO.0544US	Granted	US	Ovonyx	10/633,886	7,399,655	4-Aug-2003
98	ITO.0544TW	Granted	TW		93121747	1279908	21-Jul-2004
98	ITO.0544C2US	Granted	US	Ovonyx	12/157,086	7,728,352	6-Jun-2008
99	ITO.0549US	Granted	US	Ovonyx	10/634,146	7,596,016	4-Aug-2003
100	ITO.0551US	Granted	US	Ovonyx	10/634,139	7,211,819	4-Aug-2003
100	ITO.0551C1US	Granted	US	Ovonyx	11/649,389	7,420,200	4-Jan-2007
100	ITO.0551D1US	Granted	US	Ovonyx	11/725,434	7,811,885	19-Mar-2007
101	ITO.0552US	Granted	US	Ovonyx	10/634,140	6,914,255	4-Aug-2003
101	ITO.0552KR	Granted	KR		10-2006-7002317	10-0796430	12-Jul-2004
101	ITO.0552TW	Granted	TW		93121746	1250677	21-Jul-2004
102	ITO.0553US	Granted	US	Ovonyx	10/634,153	7,471,552	4-Aug-2003
102	ITO.0553TW	Granted	TW		93121744	1327730	21-Jul-2004
103	ITO.0565US	Granted	US	Ovonyx	10/939,273	7,590,918	10-Sep-2004
103	ITO.0565D1US	Granted	US	Ovonyx	12/538,906	8,566,674	11-Aug-2009
104	ITO.0560US	Granted	US	Ovonyx	11/093,877	8,116,159	30-Mar-2005
104	ITO.0560TW	Granted	TW		95108974	1337357	16-Mar-2006
104	ITO.0560JP	Granted	JP		2006-90752	5052805	29-Mar-2006
104	ITO.0560CN	Granted	CN		200610071852.5	200610071852.5	30-Mar-2006
104	ITO.0560KR	Granted	KR		10-2006-028866	814608	30-Mar-2006
104	ITO.0560D1US	Granted	US	Ovonyx	13/353,531	8,259,525	19-Jan-2012
104	ITO.0560D2US	Granted	US	Ovonyx	13/555,346	8,705,306	23-Jul-2012
105	ITO.0561US	Granted	US	Ovonyx	11/093,864	8,036,013	30-Mar-2005
106	ITO.0562US	Granted	US	Ovonyx	11/093,878	7,495,944	30-Mar-2005
106	ITO.0562CN	Granted	CN		200610071855.9	18415588	30-Mar-2006
106	ITO.0562KR	Granted	KR		10-2006-028946	10-0875352	30-Mar-2006
106	ITO.0562D1KR	Granted	KR		10-2008-0096839	10-0985930	1-Oct-2008
106	ITO.0562D1US	Granted	US	Ovonyx	12/354,425	7,936,584	15-Jan-2009
106	ITO.0562D2US	Granted	US	Ovonyx	13/072,911	8,098,512	28-Mar-2011
106	ITO.0562D1CN	Granted	CN		201210204114.9	1027089208	19-Jun-2012
107	ITO.0564TW	Granted	TW		94128744	1284904	23-Aug-2005
107	ITO.0564KR	Granted	KR		10-2005-0083973	10-0704329	9-Sep-2005
108	ITO.0576D1US	Pending	US	Ovonyx	12/756,392		8-Apr-2010
109	ITO.0577US	Granted	US	Ovonyx	10/966,129	7,338,857	14-Oct-2004
109	ITO.0577D1US	Granted	US	Ovonyx	11/986,350	7,470,922	21-Nov-2007
110	ITO.0578US	Granted	US	Ovonyx	10/943,409	7,687,830	17-Sep-2004
110	ITO.0578TW	Granted	TW		94128747	1296435	23-Aug-2005
110	ITO.0578JP	Granted	JP		2005-261966	4722634	9-Sep-2005
110	ITO.0578KR	Granted	KR		10-2005-0086782	10-0632324	16-Sep-2005
110	ITO.0578D1US	Granted	US	Ovonyx	12/700,440	8,084,789	4-Feb-2010
111	ITO.0579US	Granted	US	Ovonyx	10/948,885	7,149,132	24-Sep-2004
112	ITO.0583US	Granted	US	Ovonyx	11/093,710	7,453,715	30-Mar-2005
112	ITO.0583D1US	Granted	US	Ovonyx	12/283,560	7,849,712	11-Sep-2008
112	ITO.0583D2US	Granted	US	Ovonyx	12/939,218	8,077,498	4-Nov-2010
112	ITO.0583D3US	Granted	US	Ovonyx	13/295,334	8,427,862	14-Nov-2011
113	ITO.0590US	Granted	US	Ovonyx	11/093,709	7,154,774	30-Mar-2005
113	ITO.0590C1US	Granted	US	Ovonyx	11/527,147	7,388,775	28-Sep-2006
114	ITO.0591US	Granted	US	Ovonyx	11/093,879	7,570,524	30-Mar-2005

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114	ITO.0591D1US	Granted	US	Ovonyx	12/491,352	8,259,515	25-Jun-2009
114	ITO.0591D2US	Granted	US	Ovonyx	13/561,172	8,565,031	30-Jul-2012
115	ITO.0595US	Granted	US	Ovonyx	11/127,482	7,910,904	12-May-2005
115	ITO.0595D1US	Pending	US	Ovonyx	13/028,306		16-Feb-2011
116	ITO.0597US	Granted	US	Ovonyx	11/122,363	7,488,968	5-May-2005
116	ITO.0597D1US	Granted	US	Ovonyx	12/349,077	7,833,824	6-Jan-2009
117	ITO.0598US	Granted	US	Ovonyx	11/105,829	7,280,390	14-Apr-2005
117	ITO.0598TW	Granted	TW		95113165	1308752	13-Apr-2006
117	ITO.0598CN	Granted	CN		200610099856	200610099856.4	14-Apr-2006
117	ITO.0598KR	Granted	KR		10-2006-0034224	10-0928607	14-Apr-2006
118	ITO.0611TW	Granted	TW		95127296	1319635	26-Jul-2006
118	ITO.0611JP	Granted	JP		2006-229504	5020570	25-Aug-2006
118	ITO.0611CN	Granted	CN		200610129021.9		29-Aug-2006
118	ITO.0611KR	Granted	KR		10-2006-083032	10-0808365	30-Aug-2006
118	ITO.0611D1US	Pending	US	Ovonyx	13/558,423		26-Jul-2012
119	ITO.0612US	Granted	US	Ovonyx	11/262,246	8,188,454	28-Oct-2005
119	ITO.0612D1US	Granted	US	Ovonyx	13/463,072	8,440,535	3-May-2012
120	ITO.0614US	Granted	US	Ovonyx	11/272,208	8,637,342	10-Nov-2005
120	ITO.0614D1US	Pending	US	Ovonyx	14/132,286		18-Dec-2013
121	ITO.0617US	Granted	US	Ovonyx	11/407,573	7,414,883	20-Apr-2006
121	ITO.0617CN	Granted	CN		200780014035.9	101427396B	29-Mar-2007
121	ITO.0617D1JP	Granted	JP		2013-078997	5678118	29-Mar-2007
121	ITO.0617D1KR	Granted	KR		10-2011-7006797	10-1238503	29-Mar-2007
121	ITO.0617JP	Pending	JP		2009-506504		29-Mar-2007
121	ITO.0617KR	Granted	KR		10-2008-7025131	10-119693	29-Mar-2007
121	ITO.0617TW	Granted	TW		96112889	1342023	12-Apr-2007
121	ITO.0617D1US	Granted	US	Ovonyx	12/218,122	7,864,567	11-Jul-2008
122	ITO.0627D1US	Pending	US	Ovonyx	13/564,783		2-Aug-2012
123	ITO.0629US	Granted	US	Ovonyx	11/724,112	7,531,378	14-Mar-2007
123	ITO.0629D1US	Granted	US	Ovonyx	12/414,739	7,638,789	31-Mar-2009
124	ITO.0645US	Granted	US	Ovonyx	11/973,565	7,729,162	9-Oct-2007
124	ITO.0645D1US	Granted	US	Ovonyx	12/764,157	8,098,519	21-Apr-2010
124	ITO.0645D2US	Granted	US	Ovonyx	13/315,374	8,223,538	9-Dec-2011
124	ITO.0645D3US	Granted	US	Ovonyx	13/526,886	8,462,545	19-Jun-2012
124	ITO.0645D4US	Granted	US	Ovonyx	13/910,237	8,699,267	5-Jun-2013
125	ITO.0669US	Granted	US	Ovonyx	12/080,001	7,990,761	31-Mar-2008
125	ITO.0669D1US	Granted	US	Ovonyx	13/158,565	8,634,226	13-Jun-2011
125	ITO.0669D2US	Granted	US	Ovonyx	14/102,820	8,861,293	11-Dec-2013
125	ITO.0669D3US	Granted	US	Ovonyx	14/336,600	9,036,409	21-Jul-2014
125	ITO.0669C1US	Pending	US	Ovonyx	14/512,545		13-Oct-2014
125	ITO.0669D4US	Pending	US	Ovonyx	14/672,332		30-Mar-2015
126	ITO.0671US	Pending	US	Ovonyx	12/082,137		9-Apr-2008
127	ITO.0672US	Granted	US	Ovonyx	12/080,081	7,764,477	31-Mar-2008
128	ITO.0675D1US	Pending	US	Ovonyx	14/533,341		5-Nov-2014
129	ITO.0676US	Granted	US	Ovonyx	12/082,070	7,836,593	8-Apr-2008
129	ITO.0676D1US	Granted	US	Ovonyx	13/072,002	8,164,949	25-Mar-2011
130	2024.64	Granted	US	Ovonyx	11/301211	7525117	12-Dec-2005
130	2024.69	Granted	US	Ovonyx	11/451913	7767992	13-Jun-2006

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130	2024.64	Granted	JP	Ovonyx	2008-545607	5520484	16-Nov-2006
130	2024.64	Granted	KR	Ovonyx	10-2008-7005573	10-1330769	16-Nov-2006
130	2024.64	Granted	TW	Ovonyx	95146197	1458147	11-Dec-2006
130	2024.69	Granted	CN		200780029531	ZL200780029530.7	07-Jun-2007
130	2024.69	Granted	TW	Ovonyx	96121144	1425635	12-Jun-2007
130	2024.77	Granted	US	Ovonyx	11/975615	7786462	19-Oct-2007
						REEXAM	
130	2024.75	Pending	CN		PCT/US08/06954	REQUESTED	02-Jun-2008
130	2024.69 C1	Granted	US	Ovonyx	12/178148	8000125	23-Jul-2008
130	2024.75	Granted	JP	Ovonyx	2010/513192	5698975	15-Dec-2009
130	2024.64	Granted	KR	Ovonyx	10-2013-7015680	10-1501980	17-Jun-2013
131	2024.88	Granted	US	Ovonyx	11/549178	7684225	13-Oct-2006
132	2024.89	Granted	US	Ovonyx	11/380612	7391664	27-Apr-2006
132	2024.89	Granted	TW		85141907	1424444	13-Nov-2006
132	2024.89	Granted	KR		10-2006-0133798	10-1363967	26-Dec-2006
132	2024.89D	Granted	US	Ovonyx	12/497864	7646626	03-Mar-2008
132	2024.89_2	Granted	US	Ovonyx	12/683735	7983104	07-Jan-2010
132	2024.89	Granted	KR		10-2013-0024504	10-1374639	07-Mar-2013
133	2024.96	Granted	US	Ovonyx	12/054919	7579210	25-Mar-2008
134	02-AG-081	Granted	DE		EP02425604.2	EP1408548B1	8-Oct-2002
134	02-AG-081	Granted	US	Ovonyx & Micron	10/680,721	6,989,580	7-Oct-2003
134	02-AG-081	Granted	US	Ovonyx & Micron	11/264,084	7,563,684	1-Nov-2005
135	02-AG-077	Granted	DE		EP02425605.9	EP1408550B1	8-Oct-2002
135	02-AG-077	Granted	US	Ovonyx & Micron	10/680,727	7,135,756	7-Oct-2003
135	02-AG-077	Granted	US	Ovonyx & Micron	11/551,170	7,446,011	19-Oct-2006
136	02-AG-192	Granted	US	Ovonyx & STM	10/837,941	7,256,130	30-Apr-2004
137	02-AG-327	Granted	FR	STM	EP03425337.7	EP1482551B1	26-May-2003
137	02-AG-327	Granted	US	Ovonyx & STM	10/853,015	7,253,108	25-May-2004
138	02-AG-429	Granted	US	Ovonyx & STM	11/018,213	7,247,573	20-Dec-2004
139	01-AG-215	Pending	DE		EP01128461.9		5-Dec-2001
139	01-AG-215	Pending	FR		EP01128461.9		5-Dec-2001
139	01-AG-215	Pending	GB		EP01128461.9		5-Dec-2001
139	01-AG-215	Pending	IT		EP01128461.9		5-Dec-2001
139	01-AG-309	Granted	DE	Ovonyx & Micron	EP02425088.8	EP1339103B1	20-Feb-2002
139	01-AG-310	Granted	DE	Ovonyx & Micron	EP02425089.6	EP1339111B1	20-Feb-2002
139	01-AG-301	Granted	DE	Ovonyx & Micron	EP02425087.0	EP1339110B1	20-Feb-2002
139	01-AG-215	Granted	US	Ovonyx & Micron	10/313,991	7,227,171	5-Dec-2002
139	01-AG-215	Granted	JP		JP2002-353352	JP4729236	5-Dec-2002
139	01-AG-309	Granted	US	Ovonyx & Micron	10/371,154	6,972,430	20-Feb-2003
139	01-AG-310	Granted	US	Ovonyx & Micron	10/372,639	6,930,913	20-Feb-2003
139	01-AG-301	Granted	US	Ovonyx & Micron	10/372,761	6,891,747	20-Feb-2003
139		Granted	DE	Ovonyx & STM	EP03425235.3	EP1469532B1	16-Apr-2003
139		Granted	FR	Ovonyx & STM	EP03425235.3	EP1469532B1	16-Apr-2003
139		Granted	GB	Ovonyx & STM	EP03425235.3	EP1469532B1	16-Apr-2003
139		Granted	IT	Ovonyx & STM	EP03425235.3	EP1469532B1	16-Apr-2003
139	01-AG-301	Granted	US	Ovonyx & Micron	11/045,170	7,993,957	27-Jan-2005
139	01-AG-310	Granted	US	Ovonyx & Micron	11/156,989	7,402,455	20-Jun-2005
139	01-AG-309	Granted	US	Ovonyx & Micron	11/258,340	7,372,166	24-Oct-2005

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139	01-AG-301	Pending	US	Ovonyx & Micron	13/158,291		10-Jun-2011
140	Seed IP	Granted	DE	Ovonyx & STM	EP10183801	EP2261928B1	22-Oct-2003
140	Seed IP	Granted	FR	Ovonyx & STM	EP10183801	EP2261928B1	22-Oct-2003
140	Seed IP	Granted	DE	Ovonyx & STM	EP03103898.7	EP1526547B1	22-Oct-2003
140	Seed IP	Granted	FR	Ovonyx & STM	EP03103898.7	EP1526547B1	22-Oct-2003
140	Seed IP	Granted	GB	Ovonyx & STM	EP03103898.7	EP1526547B1	22-Oct-2003
140	Seed IP	Granted	IT	Ovonyx & STM	EP03103898.7	EP1526547B1	22-Oct-2003
140	Seed IP	Granted	US	Ovonyx & STM	10/970,842	7,227,765	20-Oct-2004
141	02-AG-523	Granted	US	Ovonyx & Micron	11/018,550	7,203,087	20-Dec-2004
141		Granted	DE	Ovonyx & Micron	EP04106858.6	EP1548745B1	22-Dec-2004
142	02-AG-300	Granted	DE	Ovonyx & STM	EP03425016.7	EP1439583B1	15-Jan-2003
142	02-AG-300	Granted	US	Ovonyx & STM	10/756,195	7,122,824	13-Jan-2004
142	02-AG-300	Granted	US	Ovonyx & STM	11/468,153	7,618,840	29-Aug-2006
143	01-AG-166	Pending	DE		EP02028616.7		27-Dec-2001
143	01-AG-166	Pending	FR		EP02028616.7		27-Dec-2001
143	01-AG-166	Pending	GB		EP02028616.7		27-Dec-2001
143	01-AG-166	Pending	IT		EP02028616.7		27-Dec-2001
143	01-AG-166	Granted	US	Ovonyx & Micron	10/331,185	6,754,107	27-Dec-2002
143	02-AG-245	Granted	DE	Ovonyx & STM	EP03425098.5	EP1450373B1	21-Feb-2003
143	02-AG-245	Granted	GB	Ovonyx & STM	EP03425098.5	EP1450373B1	21-Feb-2003
143	02-AG-245	Granted	US	Ovonyx & STM	10/782,737	7,050,328	18-Feb-2004
143	02-AG-245	Granted	JP		JP2004-044208	4,570,886	20-Feb-2004
143	02-AG-245	Granted	US	Ovonyx & STM	11/350,300	7,324,371	7-Feb-2006
144	01-AG-269	Granted	DE	Ovonyx & STM	EP02425706.5	EP1420412B1	16-Nov-2002
144	01-AG-269	Granted	GB	Ovonyx & STM	EP02425706.5	EP1420412B1	16-Nov-2002
144	01-AG-269	Granted	IT	Ovonyx & STM	EP02425706.5	EP1420412B1	16-Nov-2002
144	01-AG-269	Granted	US	Ovonyx & STM	10/715,883	7,020,014	18-Nov-2003
145	02-AG-125	Granted	DE	Ovonyx & STM	EP03425017.5	EP1439579B1	15-Jan-2003
145	02-AG-125	Granted	FR	Ovonyx & STM	EP03425017.5	EP1439579B1	15-Jan-2003
145	02-AG-125	Granted	GB	Ovonyx & STM	EP03425017.5	EP1439579B1	15-Jan-2003
145	02-AG-125	Granted	IT	Ovonyx & STM	EP03425017.5	EP1439579B1	15-Jan-2003
145	02-AG-125	Granted	US	Ovonyx & STM	10/758,289	6,974,734	15-Jan-2004
146	01-AG-212	Granted	US	Ovonyx & Micron	10/345,129	6,946,673	14-Jan-2003
147	01-AG-191	Granted	DE	Micron	EP01830808.4	EP1326254B1	27-Dec-2001
147	01-AG-191	Granted	US	Ovonyx & Micron	10/319,439	6,816,404	12-Dec-2002
148	01-AG-008	Granted	US	Ovonyx & Micron	10/041,684	6,567,296	24-Oct-2001
149	8410.P00006	Granted	DE	Ovonyx & Micron	EP03425292.4	EP1475840B1	7-May-2003
150	20060305	Granted	US	BAE/Ovonyx	12/531,849	8027191	30-Nov-2004
151	20060306	Granted	US	BAE/Ovonyx	12/525,482	7916527	26-Nov-2008
152	20060307	Granted	US	BAE/Ovonyx	12/531,851	8059454	11-Jan-2010
153	20060308	Granted	US	BAE/Ovonyx	12/525,510	7986550	26-Nov-2008
154	2024.26	Granted	US	BAE/Ovonyx	09/881551	6589714	26-Jun-2001
154	2024.31	Granted	US	BAE/Ovonyx	10/072,324	6733956	08-Feb-2002
155	BA-00486	Granted	US	Ovonyx	09/943178	6448576	30-Aug-2001
155	BA-00486A	Granted	US	Ovonyx	10/180645	6692994	26-Jun-2002
155	2024.44	Granted	US	BAE/Ovonyx	10/655,975	6869869	05-Sep-2003
156	BA-00548	Granted	US	BAE/Ovonyx	10/331,850	6815266	30-Dec-2002
156	BA-00548A	Granted	US	BAE/Ovonyx	10/831785	6909107	26-Apr-2004

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157	BA-00585	Granted	US	BAE/Ovonyx	10/631174	6965521	31-Jul-2003
157	BA-00585A	Granted	US	BAE/Ovonyx	11/225953	7099187	14-Sep-2005
158	BA-00586	Granted	US	BAE/Ovonyx	10/811454	6944041	26-Mar-2004
159	BA-00592	Granted	US	BAE/Ovonyx	12/525,458	7965541	25-Nov-2008
160	OVX-34	Granted	US	Ovonyx	12/884413	8441836	17-Sep-10
160	OVX-34	Granted	US	Ovonyx	13/892499	8767440	13-May-13
161	SAM-1448	Pending	KR		10-2009-0079766		27-Aug-2009
161	SAM-1448	Granted	US	Ovonyx/Samsung	12/657,715	8,222,625	26-Jan-2010

PENDING PATENT APPLICATIONS

Family	Case Number	Status	Ctry	Owner	App Number	Publication Number	Filing Date
20	2024.97	Pending	KR	Ovonyx	2010-7026584	10-2011-0014998	26-Nov-10
29	2024.92	Pending	CN	Ovonyx	200980000000	102017003	18-Feb-09
29	2024.92	Pending	KR	Ovonyx	2010-7020780	10-2010-0117121	16-Sep-10
29	2024.92	Pending	TW	Ovonyx	98105200	200951951	19-Feb-09
30	2024.93	Pending	KR	Ovonyx	10-2010-7021346	10-2010-0117133	24-Sep-10
30	2024.93	Pending	TW	Ovonyx	98105892	200951957	25-Feb-09
31	2024.98	Pending	KR	Ovonyx	10-2010-7026585	10-2011-0007230	26-Nov-10
34	2103_DIV	Pending	CN	Ovonyx	201010139378.1	102080216A	5-Jan-06
34	2103	Pending	TW	Ovonyx	95103242	200643210	27-Jan-06
40	OVON#62	Pending	KR	Ovonyx	2013-7022712	10-2013-0108482	28-Aug-13
47	OVX.0004	Pending	CN	Ovonyx	200780020932.0	101461010	24-Apr-2007
54	OVX-10_3	Pending	US	Ovonyx	14/791,461		5-Jul-2015
54	OVX-10_4	Pending	US	Ovonyx	14/791,463		5-Jul-2015
56	OVX-13	Pending	TW	Ovonyx	98130152	201034015	8-Sep-09
67	OVX-30P	Pending	KR	Ovonyx	10-2010-0100006	10-2011-0040728	13-Oct-10
68	OVX-32	Pending	US	Ovonyx	12/626988	20110128766	30-Nov-09
84	ITO.0530EP	Pending	Europe	Ovonyx	2761617.6	EP1537584A1	11-Sep-2002
108	ITO.0578D1US	Pending	US	Ovonyx	12/756,392	20100197120	8-Apr-2010
115	ITO.0595D1US	Pending	US	Ovonyx	13/028,306	20110136315	16-Feb-2011
118	ITO.0611D1US	Pending	US	Ovonyx	13/558,423	20120298946	26-Jul-2012
120	ITO.0614D1US	Pending	US	Ovonyx	14/132,286	20140104939	18-Dec-2013
121	ITO.0617JP	Pending	JP	Ovonyx	2009-506504	2009-534835	29-Mar-2007
122	ITO.0627D1US	Pending	US	Ovonyx	13/564,783	20120294076	2-Aug-2012
125	ITO.0669C1US	Pending	US	Ovonyx	14/512,545	20150109857	13-Oct-2014
125	ITO.0669D4US	Pending	US	Ovonyx	14/672,332		30-Mar-2015
128	ITO.0675D1US	Pending	US	Ovonyx	14/533,341	20150055409	5-Nov-2014
130	2024.75	Pending	CN	Ovonyx	PCT/US08/06954	101755350	02-Jun-2008
139	01-AG-215	Pending	DE	Ovonyx & Micron	EP01128461.9	EP1318552A1	5-Dec-2001
139	01-AG-215	Pending	FR	Ovonyx & Micron	EP01128461.9	EP1318552A1	5-Dec-2001
139	01-AG-215	Pending	GB	Ovonyx & Micron	EP01128461.9	EP1318552A1	5-Dec-2001
139	01-AG-215	Pending	IT	Ovonyx & Micron	EP01128461.9	EP1318552A1	5-Dec-2001

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139	01-AG-301	Pending	US	Ovonyx & Micron	13/158,291	20110237045	10-Jun-2011
143	01-AG-166	Pending	DE	Ovonyx & Micron	EP02028616.7	EP1326258A1	27-Dec-2001
143	01-AG-166	Pending	FR	Ovonyx & Micron	EP02028616.7	EP1326258A1	27-Dec-2001
143	01-AG-166	Pending	GB	Ovonyx & Micron	EP02028616.7	EP1326258A1	27-Dec-2001
143	01-AG-166	Pending	IT	Ovonyx & Micron	EP02028616.7	EP1326258A1	27-Dec-2001
161	SAM-1448	Pending	KR	Ovonyx/Samsung	10-2009-0079766	10-2011-0022249	27-Aug-2009
126	ITO.0671US	Pending 15-1345	US	Ovonyx	12/082,137	20090256133	9-Apr-2008