

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT5735493

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	SECURITY AGREEMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	A123 SYSTEMS, INC.	08/16/2012
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	WANXIANG AMERICA CORPORATION	
<b>Street Address:</b>	88 AIRPORT ROAD	
<b>City:</b>	ELGIN	
<b>State/Country:</b>	ILLINOIS	
<b>Postal Code:</b>	60123	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	15640260
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(971)271-8021	
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<b>ATTORNEY DOCKET NUMBER:</b>	A123143051DIV2	
<b>NAME OF SUBMITTER:</b>	ASHLEY R. TAPIA	
<b>SIGNATURE:</b>	/Ashley R. Tapia/	
<b>DATE SIGNED:</b>	09/24/2019	
<b>Total Attachments: 24</b>		
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**CONFIRMATORY GRANT OF SECURITY INTEREST  
IN UNITED STATES PATENTS**

THIS CONFIRMATORY GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS (as the same may be amended, restated, supplemented or otherwise modified from time to time, the "Confirmatory Grant") is made effective as of August 16, 2012 by and from A123 SYSTEMS, INC., a Delaware corporation (the "Grantor"), to and in favor of WANXIANG AMERICA CORPORATION, as Lender (as defined in the Loan Agreement referenced below) (the "Grantee").

WHEREAS, the Grantor and Grantee have entered into a Loan Agreement dated as of the date hereof (as may be amended, restated, supplemented or otherwise modified from time to time, the "Loan Agreement").

WHEREAS, the Grantor and the Subsidiaries of the Grantor have entered into a Pledge and Security Agreement dated as of the date hereof (as may be amended, restated, supplemented or otherwise modified from time to time, the "Security Agreement").

WHEREAS, the Grantor owns the patents as listed on Exhibit A attached hereto (the "Patents"), which Patents are pending or registered with the United States Patent and Trademark Office.

WHEREAS, this Confirmatory Grant has been granted in conjunction with the security interest granted under the Security Agreement to Grantee. The rights and remedies of Grantee with respect to the security interest granted herein are without prejudice to and are in addition to those set forth in the Security Agreement and the other Loan Documents, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this Confirmatory Grant are deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall govern.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is hereby agreed that:

1) Definitions. All capitalized terms not defined herein shall have the respective meaning given to them in the Security Agreement.

2) The Security Interest.

(a) This Confirmatory Grant is made to secure the performance and payment of all the Secured Obligations. Upon the payment in full of all Secured Obligations (other than contingent indemnification obligations), Grantee shall promptly, upon such satisfaction, execute, acknowledge, and deliver to the Grantor all reasonably requested instruments in writing confirming the release of the security interest in the Patents acquired under the Security Agreement and this Confirmatory Grant.

(b) The Grantor hereby grants to Grantee a security interest in (1) all of the Grantor's right, title and interest in and to the Patents now owned or from time to time after the date hereof owned or acquired by the Grantor, together with (2) all proceeds of such Patents and (3) all causes of action arising prior to or after the date hereof for infringement of such Patents or unfair competition regarding the same.

3) Counterparts. This Confirmatory Grant may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be

an original and all of which taken together shall constitute one and the same agreement. Signature pages may be detached from multiple separate counterparts and attached to a single counterpart.

4) Governing Law. This Confirmatory Grant and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the law of the State of New York.

\*\*\*\*\*

IN WITNESS WHEREOF, the Grantor has executed this Confirmatory Grant  
effective as of the date first written above.

A123 SYSTEMS, INC.

By: 

Name:

David P. Vieau

Title:

President + CEO

Confirmatory Grant of Security Interest In United States Patents

PATENT  
REEL: 050481 FRAME: 0170

CONFIRMATORY GRANT OF SECURITY INTEREST  
IN UNITED STATES PATENTS

Exhibit A - SCHEDULE OF PATENTS

# Intellectual Property Rights - Patents

A123 Case Number	A123 SubCase	Country	Owner	Status	CaseType	App. No.	Filing Date	Pat. No.	Pat. Date	AppTitle	Inventor
1000		Europe	A123-owned	Granted	ORD	095943721.1	12/11/1995	0808507-B	11/19/2003	High Surface Area Nitride, Carbide And Boride Electrodes And Methods Of Fabrication Thereof	Levi T. Thompson, Jr., Michael R. Wixom, Jeffrey M. Parker
1000		Germany	A123-owned	Granted	ORD	95943721.1	12/11/1995	69532172.2		High Surface Area Nitride, Carbide, And Boride Electrodes And Methods Of Fabrication Thereof	Levi T. Thompson, Jr., Michael R. Wixom, Jeffrey M. Parker
1000		Japan	A123-owned	Granted	ORD	8-519,174	12/11/1995	3900303	1/12/2007	High Surface Area Nitride, Carbide, And Boride Electrodes And Methods Of Fabrication Thereof	Levi T. Thompson, Jr., Michael R. Wixom, Jeffrey M. Parker
1000		United Kingdom	A123-owned	Granted	ORD	95943721.1	12/11/1995	808507	12/11/2005	High Surface Area Nitride, Carbide, And Boride Electrodes And Methods Of Fabrication Thereof	Levi T. Thompson, Jr., Michael R. Wixom, Jeffrey M. Parker
1000		United States	A123-owned	Granted	ORD	08354,289	12/12/1994	5680292	10/21/1997	High Surface Area Nitride, Carbide And Boride Electrodes And Methods Of Fabrication Thereof	Levi T. Thompson, Jr., Michael R. Wixom, Jeffrey M. Parker
1001		United States	A123-owned	Granted	ORD	08818,337	3/14/1997	5888669	3/30/1999	Transition Metal Based Ceramic Material And Articles Fabrication Therefrom	Levi T. Thompson, Jr., Michael R. Wixom
1002		United States	A123-owned	Granted	ORD	09253,965	2/22/1999	6297185	10/22/2001	Galaxy	Levi T. Thompson, Michael Wixom, David Tarowski, Cong Pu
1003		Europe	A123-owned	Pending	ORD	99923275.4	5/21/1999			Transition Metal Based Ceramic Material And Electrodes Fabricated Therefrom	Daryl Clerc, Matthew Fay, Levi Thompson, Michael Wixom
1003		Japan	A123-owned	Granted	ORD	2000-551449	5/21/1999	4712970	4/1/2011	Transition Metal Based Ceramic Material And Electrodes Fabricated Therefrom	Daryl Clerc, Matthew Fay, Levi Thompson, Michael Wixom
1003		United States	A123-owned	Granted	ORD	09315,169	5/20/1999	6190802	2/20/2001	Transition Metal Based Ceramic Material And Electrodes Fabricated Therefrom	Daryl Clerc, Matthew Fay, Levi Thompson, Michael Wixom
1004		United States	TUJ Tech	Granted	ORD	09454,571	12/7/1999	6524744	2/25/2003	Multi Phase Material And Electrodes Made Therefrom	Daryl Clerc, Matthew Fay, Jennifer Groff, Michael Wixom
1005		Canada	Jointly Owned (MIT)	Pending	PCT	2455819	7/26/2002			BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	Michael S Viola, William Moorehead, Gilbert N. Riley, Jr., Antoni S. Gozdz, Richard K Holman, Andrew Loxley, Yet-Ming Chiang
1005		China	Jointly Owned (MIT)	Granted	PCT	02818181.6	7/26/2002	ZL02818181.6	3/24/2010	BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	Michael S Viola, William Moorehead, Gilbert N. Riley, Jr., Antoni S. Gozdz, Richard K Holman, Andrew Loxley, Yet-Ming Chiang
1005		Europe	Jointly Owned (MIT)	Pending	PCT	02768358.0	7/26/2002			BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	Michael S Viola, William Moorehead, Gilbert N. Riley, Jr., Antoni S. Gozdz, Richard K Holman, Andrew Loxley, Yet-Ming Chiang
1005		India	Jointly Owned (MIT)	Granted	PCT	118KOLNP2004	7/26/2002	222130	7/23/2008	ELECTROCHEMICAL DEVICE AND METHOD FOR PRODUCING THE SAME	Michael S Viola, William Moorehead, Gilbert N. Riley, Jr., Antoni S. Gozdz, Richard K Holman, Andrew Loxley, Yet-Ming Chiang
1005		Japan	Jointly Owned (MIT)	Pending	PCT	2003-517975	7/26/2002	4619000	11/5/2010	BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	Michael S Viola, William Moorehead, Gilbert N. Riley, Jr., Antoni S. Gozdz, Richard K Holman, Andrew Loxley, Yet-Ming Chiang
1005	1	Korea	Jointly Owned (MIT)	Pending	DIV	10-2009-7016254	7/26/2002			BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	Michael S Viola, William Moorehead, Gilbert N. Riley, Jr., Antoni S. Gozdz, Richard K Holman, Andrew Loxley, Yet-Ming Chiang
1005	2	Korea	Jointly Owned (MIT)	Pending	DIV	10-2012-7008431	7/26/2002			BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	Michael S Viola, William Moorehead, Gilbert N. Riley, Jr., Antoni S. Gozdz, Richard K Holman, Andrew Loxley, Yet-Ming Chiang
1005	1	United States	Jointly Owned (MIT)	Granted	CIP	10/206662	7/26/2002	7579112	8/25/2009	BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	Michael S Viola, William Moorehead, Gilbert N. Riley, Jr., Antoni S. Gozdz, Richard K Holman, Andrew Loxley, Yet-Ming Chiang
1005	2	United States	Jointly Owned (MIT)	Granted	CON	12/512421	7/30/2009	8168326	5/1/2012	BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	Michael S Viola, William Moorehead, Gilbert N. Riley, Jr., Antoni S. Gozdz, Richard K Holman, Andrew Loxley, Yet-Ming Chiang
1005	3	United States	Jointly Owned (MIT)	Granted	CON	886035	9/20/2010	7968746	8/2/2011	BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	Michael S Viola, William Moorehead, Gilbert N. Riley, Jr., Antoni S. Gozdz, Richard K Holman, Andrew Loxley, Yet-Ming Chiang

A123 Case Number	A123 Subcase	Country	Owner	Status	Case type	App. No.	Filing Date	Pat. No.	Pat. Date	Apptitle	Inventor
1005	4	United States	Jointly Owned (MTT)	Granted	DIV	13/169423	6/27/2011	8206469	6/26/2012	BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	Michael S Viola, William Moorehead, Gilbert N. Riley, Jr., Antoni S. Gozdz, Richard K Holman, Andrew Loxley, Yet-Ming Chiang
1005	5	United States	Jointly Owned (MTT)	Granted	CJP	12/891637	9/27/2010	7662265	2/24/2011	BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	William Moorehead, Yet-Ming Chiang
1005	6	United States	Licensed (MTT)	Pending	CJP	12/886,066	9/20/2010			BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	William Moorehead, Yet-Ming Chiang
1005	7	United States	Jointly Owned (MTT)	Pending	CJP	12/692,460	1/22/2010			BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	William Moorehead, Yet-Ming Chiang
1005	8	United States	Jointly Owned (MTT)	Pending	CJP	13/472351	5/15/2012		7/27/2001	BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	William Moorehead, Yet-Ming Chiang
1005	9	United States	Jointly Owned (MTT)	Pending	CJP	13/549064	6/13/2012		7/27/2001	BATTERY STRUCTURES, SELF-ORGANIZING STRUCTURES AND RELATED METHODS	William Moorehead, Yet-Ming Chiang
1006		Korea	A123 owned	Granted	ORD	10/2001-0063761	10/16/2001	0413608	12/18/2003	SEPARATOR FOR LITHIUM ION SECONDARY BATTERY, METHOD FOR PRODUCING THE SAME, AND LITHIUM ION SECONDARY BATTERY COMPRISING THE SAME	Hwan-Jin Noh
1007		Korea	A123 owned	Granted	ORD	10/2002-0028784	5/23/2002	0459671	11/24/2004	NONAQUEOUS ELECTROLYTE COMPOSITION FOR BATTERY OR CONDENSER	Hwan-Jin Noh
1008	1	United States	A123 owned	Granted	ORD	10/354405	1/30/2003	7087348	8/8/2006	COATED ELECTRODE PARTICLES FOR COMPOSITE ELECTRODES AND ELECTROCHEMICAL CELLS	Yet-Ming Chiang, Antoni S. Gozdz, Andrew Loxley, Richard K Holman, Gilbert N. Riley, Jr., Michael S Viola, Benjamin Nunes, Michele Ostiral
1010	2	United States	A123 owned	Pending	ORD	12/816644	6/16/2010	60/998902	7/26/2002	BIPOLAR ARTICLES AND RELATED METHODS	Gilbert N. Riley, Yet-Ming Chiang, Antoni S. Gozdz, Ric Fulop, Michael S. Viola
1010	1	United States	A123 owned	Granted	ORD	10/628681	7/28/2003	7763382	7/27/2010	BIPOLAR ARTICLES AND RELATED METHODS	Gilbert N. Riley, Yet-Ming Chiang, Antoni S. Gozdz, Ric Fulop, Michael S. Viola
1011		United States	A123 owned	Granted	ORD	10/7719,582	11/21/2003	6878475	4/12/2005	Membrane For Fuel Cell And Fuel Cell Incorporating That Membrane	Michael Wixom, Hanwei Lei, Pu Zhang, Junqing Ma
1012		Korea	A123 owned	Granted	ORD	10/2002-0075768	12/2/2002	0509435	8/12/2005	LITHIUM SECONDARY BATTERY AND PREPARATION METHOD THEREOF	Wnan Jin Roh
1013		Japan	A123 owned	Pending	PCT	2004-562580	12/23/2003			HIGH ENERGY AND POWER DENSITY ELECTROCHEMICAL CELLS	Yet-Ming Chiang, Antoni S. Gozdz, Gilbert N Riley, Jr.
1013	1	United States	A123 owned	Granted	CON	11/159889	6/23/2005	8003250	8/23/2011	HIGH ENERGY AND POWER DENSITY ELECTROCHEMICAL CELLS	Yet-Ming Chiang, Antoni S. Gozdz, Gilbert N Riley, Jr.
1014		China	A123 owned	Granted	PCT	200480002940.9	1/27/2004	CN100389746	1/2/2008	STACKED LITHIUM SECONDARY BATTERY AND ITS FABRICATION	Wnan Jin Roh
1014		Korea	A123 owned	Granted	ORD	10/2003-0005350	1/27/2003	0509437	8/12/2005	STACKED LITHIUM SECONDARY BATTERY AND PREPARATION METHOD THEREOF	Hwan-Jin Noh
1014		United States	A123 owned	Granted	PCT	10/543352	7/26/2005	8067112	11/29/2011	STACKED LITHIUM SECONDARY BATTERY AND ITS FABRICATION	Wnan Jin Roh
1015	1	United States	A123 owned	Granted	DIV	12/140058	6/16/2008	8088512	1/3/2012	BATTERY STRUCTURES AND RELATED METHODS	Antoni S. Gozdz, Andrew Loxley, Richard K Holman, Ronny Wilkins
1015	2	United States	A123 owned	Pending	DIV	13/299562	18-Nov-2011			BATTERY STRUCTURES AND RELATED METHODS	Antoni S. Gozdz, Andrew Loxley, Richard K Holman, Ronny Wilkins
1015		United States	A123 owned	Granted	CJP	10/354673	1/30/2003	7387651	6/17/2008	BATTERY STRUCTURES AND RELATED METHODS	Antoni S. Gozdz, Andrew Loxley, Richard K Holman, Ronny Wilkins
1016		Korea	A123 owned	Granted	ORD	10/2003-0026294	4/25/2003	0555848	2/21/2006	METHOD FOR MANUFACTURING STACKED TYPE LITHIUM SECONDARY BATTERY BY ATTACHING ELECTRODE PLATES IN ONE DIRECTION	Hwan-Jin Noh
1017	1	United States	A123 owned	Granted	ORD	10/876179	6/23/2004	7318982	1/15/2008	POLYMER COMPOSITION FOR ENCAPSULATION OF ELECTRODE PARTICLES	Anthony E Pullen, Andrew Loxley, Antoni S Gozdz
1018		Korea	Enerland	Granted	ORD	10/2003-000054336	8/6/2003	0523728	10/18/2005	SUPERCAPACITOR WITH REDUCED INTERNAL RESISTANCE	Seongwoo Park, Whanjin Roh
1018		United States	Enerland	Granted	PCT	10/567243	2/6/2006	7558050	7/7/2009	SUPERCAPACITOR WITH REDUCED INTERNAL RESISTANCE	Seongwoo Park, Whanjin Roh
1019		United States	A123 owned	Granted	ORD	11/035,172	1/13/2005	7208437	4/24/2007	Catalyst And Method For Its Manufacture	Devon Renock, Inhae Bae, Pu Zhang, Timothy K. Sendek, Elizabeth Mueller, Hanwei Lei



A123 Case Number	A123 Subcase	Country	Owner	Status	Case type	App. No.	Filing Date	Pat. No.	Pat. Date	Apptitle	Inventor
1020		United States	A123-owned	Granted	ORD	10/759,348	1/16/2004	7169328	1/30/2007	Multiphase Nanocomposite Material And Method For Its Manufacture	John Miller, Lya Wang
1021		Europe	A123-owned	Pending	ORD	04/706469.6	8/25/2005			Composite Material And Electrodes Made Therefrom	Lya Wang, Chuanjing Xu, John M. Miller
1021		Japan	A123-owned	Granted	ORD	2006-503129	1/29/2004	4786527	7/22/2011	Composite Material And Electrodes Made Therefrom	Lya Wang, Chuanjing Xu, John M. Miller
1021		United States	A123-owned	Granted	ORD	10/766,385	1/28/2004	7326494	2/5/2008	Composite Material And Electrodes Made Therefrom	Lya Wang, Chuanjing Xu, John M. Miller
1022		Australia	A123-owned	Granted	PCT	2005213420	2/7/2005	2005213420	2/7/2011	LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022		Canada	A123-owned	Pending	PCT	2555521	2/7/2005			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022		China	A123-owned	Pending	PCT	20058000019.5	2/7/2005			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022		Europe	A123-owned	Granted	PCT	05/722761.3	2/7/2005	EP 1 716 610	8/24/2011	LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022		Germany	A123-owned	Granted	EPO	05/722761.3	2/7/2005	1 716 610	8/24/2011	LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022		Hong Kong	A123-owned	Pending	ORD	07/100708.6	1/19/2007			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022		Japan	A123-owned	Pending	PCT	2006-552287	2/7/2005			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022		Korea	A123-owned	Pending	PCT	10-2006-7017938	2/7/2005			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022		Taiwan	A123-owned	Pending	ORD	94/104241	2/14/2005			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022	1	United States	A123-owned	Granted	ORD	11/052971	2/7/2005	7348101	3/25/2008	LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022	2	United States	A123-owned	Granted	CON	11/076356	3/9/2005	7261979	8/28/2007	LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022	3	United States	A123-owned	Granted	CON	11/839947	8/16/2007	7799461	9/21/2010	LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1022	3	United States	A123-owned	Granted	CON	12/880558	13-Sep-2010	8080338	12/20/2011	LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY	Gilbert N Riley, Jr., Andrew C Chu, Antoni S Godz, Yei-Ming Chiang
1023		Australia	A123-owned	Pending	PCT	2005241927	4/28/2005	2005241927	2/10/2011	LOW IMPEDANCE LAYERED BATTERY APPARATUS AND METHOD FOR MAKING THE SAME	Gilbert N Riley, James Ribordy
1023		China	A123-owned	Granted	PCT	200580018485.6	4/28/2005	ZL200580018485.6	9/16/2009	LOW IMPEDANCE LAYERED BATTERY APPARATUS AND METHOD FOR MAKING THE SAME	Gilbert N Riley, James Ribordy
1023		India	A123-owned	Pending	PCT	3222/KOLNP/2006	4/28/2005			LOW IMPEDANCE LAYERED BATTERY APPARATUS AND METHOD FOR MAKING THE SAME	Gilbert N Riley, James Ribordy
1023		Japan	A123-owned	Pending	PCT	2007-510999	4/28/2005			LOW IMPEDANCE LAYERED BATTERY APPARATUS AND METHOD FOR MAKING THE SAME	Gilbert N Riley, James Ribordy
1023		Taiwan	A123-owned	Pending	ORD	94/113816	4/29/2005			LOW IMPEDANCE LAYERED BATTERY APPARATUS AND METHOD FOR MAKING THE SAME	Gilbert N Riley, James Ribordy
1023	1	United States	A123-owned	Granted	ORD	11/117157	4/28/2005	7867651	1/11/2011	LOW IMPEDANCE LAYERED BATTERY APPARATUS AND METHOD FOR MAKING THE SAME	Gilbert N Riley, James Ribordy
1025		Canada	A123-owned	Pending	PCT	2586237	11/2/2005			METHOD FOR MAKING A COMPOSITE ELECTRODE MATERIAL	Michael Wixon, Chuanjing Xu
1025		China	A123-owned	Granted	PCT	200580041436.4	11/2/2005	ZL200580041436.4	11/11/2009	METHOD FOR MAKING A COMPOSITE ELECTRODE MATERIAL	Michael Wixon, Chuanjing Xu
1025		Germany	A123-owned	Pending	PCT	112005002725.2	11/2/2005			METHOD FOR MAKING A COMPOSITE ELECTRODE MATERIAL	Michael Wixon, Chuanjing Xu

A123 Case Number	A123 Subcase	Country	Owner	Status	Case type	App. No.	Filing Date	Pat. No.	Pat. Date	Apptitle	Inventor
1025		India	A123-owned	Pending	PCT	3770DELNP/2007	11/2/2005			METHOD FOR MAKING A COMPOSITE ELECTRODE MATERIAL	Michael Wixom, Chuanjing Xu
1025		Japan	A123-owned	Pending	PCT	2007-540397	11/2/2005			METHOD FOR MAKING A COMPOSITE ELECTRODE MATERIAL	Michael Wixom, Chuanjing Xu
1025		Korea	A123-owned	Pending	PCT	10-2007-7010945	11/2/2005			METHOD FOR MAKING A COMPOSITE ELECTRODE MATERIAL	Michael Wixom, Chuanjing Xu
1025	1	United States	A123-owned	Granted	ORD	11/261349	10/28/2005	7282301	10/16/2007	METHOD FOR MAKING A COMPOSITE ELECTRODE MATERIAL	Michael Wixom, Chuanjing Xu
1027		Canada	A123-owned	Pending	PCT	2596899	2/3/2006			ELECTRODE MATERIAL	Michael Wixom, Chuanjing Xu
1027		China	A123-owned	Pending	PCT	200680010541.6	2/3/2006			ELECTRODE MATERIAL WITH ENHANCED IONIC TRANSPORT PROPERTIES	Michael Wixom, Chuanjing Xu
1027		Germany	A123-owned	Pending	PCT	112006000326.7	2/3/2006			ELECTRODE MATERIAL WITH ENHANCED IONIC TRANSPORT PROPERTIES	Michael Wixom, Chuanjing Xu
1027		India	A123-owned	Pending	PCT	6808DELNP/2007	2/3/2006			ELECTRODE MATERIAL WITH ENHANCED IONIC TRANSPORT PROPERTIES	Michael Wixom, Chuanjing Xu
1027		Japan	A123-owned	Pending	PCT	2007-554308	2/3/2006			ELECTRODE MATERIAL WITH ENHANCED IONIC TRANSPORT PROPERTIES	Michael Wixom, Chuanjing Xu
1027		Korea	A123-owned	Pending	PCT	10-2007-7020020	2/3/2006			ELECTRODE MATERIAL WITH ENHANCED IONIC TRANSPORT PROPERTIES	Michael Wixom, Chuanjing Xu
1027	1	United States	A123-owned	Granted	ORD	11/345962	2/2/2006	7842420	11/30/2010	ELECTRODE MATERIAL WITH ENHANCED IONIC TRANSPORT PROPERTIES	Michael Wixom, Chuanjing Xu
1027	2	United States	A123-owned	Granted	ORD	12/955091	11/29/2010	8187753	5/29/2012	ELECTRODE MATERIAL WITH ENHANCED IONIC TRANSPORT PROPERTIES	Michael Wixom, Chuanjing Xu
1027	3	United States	A123-owned	Pending	ORD	13/449938	4/18/2012			ELECTRODE MATERIAL WITH ENHANCED IONIC TRANSPORT PROPERTIES	Michael Wixom, Chuanjing Xu
1028		Korea	A123-owned	Granted	ORD	10-2005-0031284	4/15/2005	0700711	3/21/2007	HYBRID ELECTRICAL ENERGY STORAGE SYSTEM WITH 4V GRADE OF OPERATION VOLTAGE	Myoung-Shin Hong, Whan Jin Roh, Seong-Woo Park, Dong Hwan Jang, Yeon Bok Jeong, Sung Cheul Park
1031		Korea	A123-owned	Granted	UTM	20-2005-0016825	6/13/2005	0394701	8/29/2005	LITHIUM SECONDARY BATTERY HAVING ANODE LEAD AND CATHODE LEAD OPPOSITELY PROJECTED FROM POUCH	Hwan-Jin No, Byoung-Su Jeong, Seong-U Park
1033		China	A123-owned	Pending	PCT	200680035978.5	8/3/2006			NANOSCALE ION STORAGE MATERIALS	Yet-Ming Chiang, Antoni S. Gozdz, Martin W. Payne
1033		Europe	A123-owned	Pending	PCT	06851633.5	8/3/2006			NANOSCALE ION STORAGE MATERIALS	Yet-Ming Chiang, Antoni S. Gozdz, Martin W. Payne
1033		Japan	A123-owned	Pending	PCT	2008-536570	8/3/2006			NANOSCALE ION STORAGE MATERIALS	Yet-Ming Chiang, Antoni S. Gozdz, Martin W. Payne
1033		Korea	A123-owned	Pending	PCT	10-2008-7005568	8/3/2006			NANOSCALE ION STORAGE MATERIALS	Yet-Ming Chiang, Antoni S. Gozdz, Martin W. Payne
1033		Taiwan	A123-owned	Pending	ORD	95129015	8/8/2006			NANOSCALE ION STORAGE MATERIALS	Yet-Ming Chiang, Antoni S. Gozdz, Martin W. Payne
1033	1	United States	A123-owned	Granted	ORD	11/396515	4/3/2006	7939201	5/10/2011	NANOSCALE ION STORAGE MATERIALS	Yet-Ming Chiang, Antoni S. Gozdz, Martin W. Payne
1033	2	United States	A123-owned	Granted	ORD	13/087645	4/15/2011	8057936	11/15/2011	NANOSCALE ION STORAGE MATERIALS	Yet-Ming Chiang, Antoni S. Gozdz, Martin W. Payne
1034		China	A123-owned	Granted	PCT	200680039326.9	9/1/2006	ZL200680039326.9		BATTERY CELL DESIGN AND METHOD OF ITS CONSTRUCTION	Jonah S Meyerberg, Donald G Daloz, Hung-Chieh Shiao, Grace S Chang, Andrew C Chu
1034		Europe	A123-owned	Pending	PCT	06814143.1	9/1/2006			BATTERY CELL DESIGN AND METHOD OF ITS CONSTRUCTION	Jonah S Meyerberg, Donald G Daloz, Hung-Chieh Shiao, Grace S Chang, Andrew C Chu
1034		India	A123-owned	Pending	PCT	976KOLNP/2008	9/1/2006			BATTERY CELL DESIGN AND METHOD OF ITS CONSTRUCTION	Jonah S Meyerberg, Donald G Daloz, Hung-Chieh Shiao, Grace S Chang, Andrew C Chu
1034		Japan	A123-owned	Pending	PCT	2008-529369	9/1/2006			BATTERY CELL DESIGN AND METHOD OF ITS CONSTRUCTION	Jonah S Meyerberg, Donald G Daloz, Hung-Chieh Shiao, Grace S Chang, Andrew C Chu
1034		Korea	A123-owned	Pending	PCT	10-2008-7007596	9/1/2006			BATTERY CELL DESIGN AND METHOD OF ITS CONSTRUCTION	Jonah S Meyerberg, Donald G Daloz, Hung-Chieh Shiao, Grace S Chang, Andrew C Chu
1034		Taiwan	A123-owned	Pending	ORD	95132535	9/4/2006			BATTERY CELL DESIGN AND METHOD OF ITS CONSTRUCTION	Jonah S Meyerberg, Donald G Daloz, Hung-Chieh Shiao, Grace S Chang, Andrew C Chu

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1034	1	United States	A123 owned	Granted	ORD	11/515597	9/5/2006	792732	4/19/2011	BATTERY CELL DESIGN AND METHOD OF ITS CONSTRUCTION	Jorah S Meyerberg, Donald G Daboe, Hung Chieh Shiao, Grace S Chang, Andrew C Chiu
1034	2	United States	A123 owned	Pending	DIV	13/087645	4/15/2011			BATTERY CELL DESIGN AND METHOD OF ITS CONSTRUCTION	Jorah S Meyerberg, Donald G Daboe, Hung Chieh Shiao, Grace S Chang, Andrew C Chiu
1035		China	A123 owned	Pending	PCT	200680039329.2	9/5/2006			NANOCOMPOSITE ELECTRODES AND RELATED DEVICES	Ronnie D Wilkirs, Gung Chieh Shiao, Antoni S Gozdz
1035		Europe	A123 owned	Pending	PCT	06851818.2	9/5/2006			NANOCOMPOSITE ELECTRODES AND RELATED DEVICES	Ronnie D Wilkirs, Gung Chieh Shiao, Antoni S Gozdz
1035		India	A123 owned	Pending	PCT	1196/KOLNP/2008	9/5/2006			NANOCOMPOSITE ELECTRODES AND RELATED DEVICES	Ronnie D Wilkirs, Gung Chieh Shiao, Antoni S Gozdz
1035		Japan	A123 owned	Pending	PCT	2009-505349	9/5/2006			NANOCOMPOSITE ELECTRODES AND RELATED DEVICES	Ronnie D Wilkirs, Gung Chieh Shiao, Antoni S Gozdz
1035		Korea	A123 owned	Pending	PCT	10-2008-7007581	9/5/2006			NANOCOMPOSITE ELECTRODES AND RELATED DEVICES	Ronnie D Wilkirs, Gung Chieh Shiao, Antoni S Gozdz
1035		Taiwan	A123 owned	Pending	ORD	95132534	9/4/2006			NANOCOMPOSITE ELECTRODES AND RELATED DEVICES	Ronnie D Wilkirs, Gung Chieh Shiao, Antoni S Gozdz
1035		United States	A123 owned	Pending	ORD	11/515633	9/5/2006			NANOCOMPOSITE ELECTRODES AND RELATED DEVICES	Ronnie D Wilkirs, Gung Chieh Shiao, Antoni S Gozdz
1036		China	A123 owned	Pending	PCT	200680040767.0	9/11/2006			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY AND LOW IMPEDANCE GROWTH	Ricardo Fulpop, Roger Lin, Andrew C, Chiu, Gilbert N Riley, Jr., Yei-Ming Chiang, Antoni S Gozdz
1036		Europe	A123 owned	Pending	PCT	06814452.6	9/11/2006			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY AND LOW IMPEDANCE GROWTH	Ricardo Fulpop, Roger Lin, Andrew C, Chiu, Gilbert N Riley, Jr., Yei-Ming Chiang, Antoni S Gozdz
1036		India	A123 owned	Pending	PCT	1060/KOLNP/2008	9/11/2006			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY AND LOW IMPEDANCE GROWTH	Ricardo Fulpop, Roger Lin, Andrew C, Chiu, Gilbert N Riley, Jr., Yei-Ming Chiang, Antoni S Gozdz
1036		Japan	A123 owned	Pending	PCT	2008-530015	9/11/2006			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY AND LOW IMPEDANCE GROWTH	Ricardo Fulpop, Roger Lin, Andrew C, Chiu, Gilbert N Riley, Jr., Yei-Ming Chiang, Antoni S Gozdz
1036		Korea	A123 owned	Pending	PCT	10-2008-7008200	9/11/2006			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY AND LOW IMPEDANCE GROWTH	Ricardo Fulpop, Roger Lin, Andrew C, Chiu, Gilbert N Riley, Jr., Yei-Ming Chiang, Antoni S Gozdz
1036		Taiwan	A123 owned	Pending	ORD	95133413	9/11/2006			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY AND LOW IMPEDANCE GROWTH	Ricardo Fulpop, Roger Lin, Andrew C, Chiu, Gilbert N Riley, Jr., Yei-Ming Chiang, Antoni S Gozdz
1036	1	United States	A123 owned	Pending	ClP	11/518974	9/11/2006			LITHIUM SECONDARY CELL WITH HIGH CHARGE AND DISCHARGE RATE CAPABILITY AND LOW IMPEDANCE GROWTH	Ricardo Fulpop, Roger Lin, Andrew C, Chiu, Gilbert N Riley, Jr., Yei-Ming Chiang, Antoni S Gozdz
1037		Korea	A123 owned	Granted	ORD	10-2005-0087631	9/21/2005	0639431	10/20/2006	HYBRID ELECTRIC ENERGY STORAGE SYSTEM EMPLOYING ACTIVE CARBON ELECTRODE, CARBON ELECTRODE AND LITHIUM BATTERY, AND ITS METHOD	Hwan-Jin Noh, Yeon Bok Jeong
1038		China	A123 owned	Pending	PCT	200680051496.9	12/1/2006			AMORPHOUS AND PARTIALLY AMORPHOUS NANOSCALE ION STORAGE MATERIALS	Yei-Ming Chiang, Nongrak Meethong, Anthony E Pullen
1038		Europe	A123 owned	Pending	PCT	06844738.2	12/1/2006			AMORPHOUS AND PARTIALLY AMORPHOUS NANOSCALE ION STORAGE MATERIALS	Yei-Ming Chiang, Nongrak Meethong, Anthony E Pullen
1038		Japan	A123 owned	Pending	PCT	2008-543508	12/1/2006			AMORPHOUS AND PARTIALLY AMORPHOUS NANOSCALE ION STORAGE MATERIALS	Yei-Ming Chiang, Nongrak Meethong, Anthony E Pullen
1038		Korea	A123 owned	Pending	PCT	10-2008-7016190	12/1/2006			AMORPHOUS AND PARTIALLY AMORPHOUS NANOSCALE ION STORAGE MATERIALS	Yei-Ming Chiang, Nongrak Meethong, Anthony E Pullen
1038		Taiwan	A123 owned	Pending	ORD	95144934	12/4/2006			AMORPHOUS AND PARTIALLY AMORPHOUS NANOSCALE ION STORAGE MATERIALS	Yei-Ming Chiang, Nongrak Meethong, Anthony E Pullen
1038	1	United States	A123 owned	Granted	ClP	11/607525	12/1/2006	8158090	4/17/2012	AMORPHOUS AND PARTIALLY AMORPHOUS NANOSCALE ION STORAGE MATERIALS	Yei-Ming Chiang, Nongrak Meethong, Anthony E Pullen
1038	2	United States	A123 owned	Pending	CON	13/446694	4/13/2012			AMORPHOUS AND PARTIALLY AMORPHOUS NANOSCALE ION STORAGE MATERIALS	Yei-Ming Chiang, Nongrak Meethong, Anthony E Pullen

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1039		China	A123 owned	Pending	PCT	200780023218.7	5/14/2007			APPARATUS AND METHOD FOR PROCESSING A COATED SHEET	Anton S Gozdz, Charles E Martin, Gilbert N Riley, Jr.
1039		Europe	A123 owned	Pending	PCT	07797450.9	5/14/2007			APPARATUS AND METHOD FOR PROCESSING A COATED SHEET	Anton S Gozdz, Charles E Martin, Gilbert N Riley, Jr.
1039		Hong Kong	A123 owned	Pending	ORD	09111096.1	5/14/2007			APPARATUS AND METHOD FOR PROCESSING A COATED SHEET	Anton S Gozdz, Charles E Martin, Gilbert N Riley, Jr.
1039		Japan	A123 owned	Pending	PCT	2009-510194	5/14/2007			APPARATUS AND METHOD FOR PROCESSING A COATED SHEET	Anton S Gozdz, Charles E Martin, Gilbert N Riley, Jr.
1039		Korea	A123 owned	Pending	PCT	10-2008-7029055	5/14/2007			APPARATUS AND METHOD FOR PROCESSING A COATED SHEET	Anton S Gozdz, Charles E Martin, Gilbert N Riley, Jr.
1039		Taiwan	A123 owned	Pending	ORD	96116856	5/11/2007			USE OF A HEATED BASE TO ACCELERATE REMOVAL OF COATED ELECTRODE IN THE PRESENCE OF A SOLVENT	Anton S Gozdz, Charles E Martin, Gilbert N Riley, Jr.
1039	1	United States	A123 owned	Pending	ORD	11/803308	5/14/2007			APPARATUS AND METHOD FOR PROCESSING A COATED SHEET	Anton S Gozdz, Charles E Martin, Gilbert N Riley, Jr.
1040		China	A123 owned	Pending	PCT	200780023208.3	5/15/2007			MULTI CONFIGURABLE SCALABLE, REDUNDANT BATTERY MODULE WITH MULTIPLE FAULT TOLERANCE	Andrew C Chu, Ricardo Fulop, Jonah S Myerberg, Michael C Hoffman, Greg Tremelling, Benjamin C Shaffer
1040		Europe	A123 owned	Pending	PCT	07783786.2	5/15/2007			MULTI CONFIGURABLE SCALABLE, REDUNDANT BATTERY MODULE WITH MULTIPLE FAULT TOLERANCE	Andrew C Chu, Ricardo Fulop, Jonah S Myerberg, Michael C Hoffman, Greg Tremelling, Benjamin C Shaffer
1040		Japan	A123 owned	Pending	PCT	2009-511206	5/15/2007			MULTI CONFIGURABLE SCALABLE, REDUNDANT BATTERY MODULE WITH MULTIPLE FAULT TOLERANCE	Andrew C Chu, Ricardo Fulop, Jonah S Myerberg, Michael C Hoffman, Greg Tremelling, Benjamin C Shaffer
1040		Korea	A123 owned	Pending	PCT	10-2008-7030134	5/15/2007			MULTI CONFIGURABLE SCALABLE, REDUNDANT BATTERY MODULE WITH MULTIPLE FAULT TOLERANCE	Andrew C Chu, Ricardo Fulop, Jonah S Myerberg, Michael C Hoffman, Greg Tremelling, Benjamin C Shaffer
1040		Taiwan	A123 owned	Pending	ORD	96117301	5/15/2007			MULTI CONFIGURABLE SCALABLE, REDUNDANT BATTERY MODULE WITH MULTIPLE FAULT TOLERANCE	Andrew C Chu, Ricardo Fulop, Jonah S Myerberg, Michael C Hoffman, Greg Tremelling, Benjamin C Shaffer
1040	1	United States	A123 owned	Granted	ORD	11/803424	5/15/2007	7,990,101	8/2/2011	MULTI CONFIGURABLE SCALABLE, REDUNDANT BATTERY MODULE WITH MULTIPLE FAULT TOLERANCE	Andrew C Chu, Ricardo Fulop, Jonah S Myerberg, Michael C Hoffman, Greg Tremelling, Benjamin C Shaffer
1041	1	United States	A123 owned	Granted	CJP	11/748286	5/14/2007	8084158	12/27/2011	BATTERY CELL DESIGN AND METHOD OF ITS CONSTRUCTION	Gilbert N Riley, Jr., Andrew C Chu, Anton S Gozdz, Michael C Hoffman
1046		China	A123 owned	Pending	PCT	200780032386.2	7/19/2007			METHOD AND SYSTEM FOR MONITORING AND BALANCING CELLS IN BATTERY PACKS	Akos Toth, Nader Zaag
1046		Europe	A123 owned	Pending	PCT	07796941.8	7/19/2007			METHOD AND SYSTEM FOR MONITORING AND BALANCING CELLS IN BATTERY PACKS	Akos Toth, Nader Zaag
1046		Japan	A123 owned	Pending	PCT	2009-520835	7/19/2007			METHOD AND SYSTEM FOR MONITORING AND BALANCING CELLS IN BATTERY PACKS	Akos Toth, Nader Zaag
1046		Korea	A123 owned	Pending	PCT	10-2009-7002588	7/19/2007			METHOD AND SYSTEM FOR MONITORING AND BALANCING CELLS IN BATTERY PACKS	Akos Toth, Nader Zaag
1046	1	United States	A123 owned	Granted	ORD	11/780296	7/19/2007	7723955	5/25/2010	METHOD AND SYSTEM FOR MONITORING AND BALANCING CELLS IN BATTERY PACKS UTILIZING OPTICALLY COUPLED CELL VOLTAGE SELECTION SIGNAL, CELL VOLTAGE ISOLATION AMPLIFIER, AND ZENER DIODES IN BALANCING CIRCUIT	Akos Toth, Nader Zaag
1048		India	A123 owned	Pending	ORD	4307/DEL/NP/2008	5/21/2008			High Capacity Electrode And Methods For Its Fabrication And Use	Bying Huang, Suresh Mani, Jun Q. Chin
1048		Japan	A123 owned	Pending	ORD	2008-539009	10/31/2006			High Capacity Electrode And Methods For Its Fabrication And Use	Bying Huang, Suresh Mani, Jun Q. Chin
1048		Korea	A123 owned	Pending	ORD	10-2008-7013129	5/30/2008			High Capacity Electrode And Methods For Its Fabrication And Use	Bying Huang, Suresh Mani, Jun Q. Chin
1048		United States	A123 owned	Pending	ORD	11/554,051	10/30/2006			High Capacity Electrode And Methods For Its Fabrication And Use	Bying Huang, Suresh Mani, Jun Q. Chin

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1049		China	A123 owned	Pending	PCT	200880009462.2	1/31/2008			NANOSCALE ION STORAGE MATERIALS	Yet Ming Chiang, Martin W. Payne, Antoni S Gozdz
1049		Europe	A123 owned	Pending	PCT	08782740.8	1/31/2008			NANOSCALE ION STORAGE MATERIALS	Yet Ming Chiang, Martin W. Payne, Antoni S Gozdz
1049		Japan	A123 owned	Pending	PCT	2009-549177	1/31/2008			NANOSCALE ION STORAGE MATERIALS	Yet Ming Chiang, Martin W. Payne, Antoni S Gozdz
1049		Korea	A123 owned	Pending	PCT	10-2009-7018664	1/31/2008			NANOSCALE ION STORAGE MATERIALS	Yet Ming Chiang, Martin W. Payne, Antoni S Gozdz
1049		Taiwan	A123 owned	Pending	ORD	97103922	2/1/2008			NANOSCALE ION STORAGE MATERIALS	Yet Ming Chiang, Martin W. Payne, Antoni S Gozdz
1049	1	United States	A123 owned	Pending	CIP	11/672931	2/8/2007			NANOSCALE ION STORAGE MATERIALS	Yet Ming Chiang, Martin W. Payne, Antoni S Gozdz
1050		Canada	A123 owned	Pending	PCT	2677847	2/8/2008			CONTROL SYSTEM AND HYBRID VEHICLES WITH RECONFIGURABLE MULTI-FUNCTION POWER CONVERTER	Akos Toth
1050		China	A123 owned	Pending	PCT	200880009239.8	2/8/2008			CONTROL SYSTEM AND HYBRID VEHICLES WITH RECONFIGURABLE MULTI-FUNCTION POWER CONVERTER	Akos Toth
1050		Europe	A123 owned	Pending	PCT	08729474.0	2/8/2008			CONTROL SYSTEM AND HYBRID VEHICLES WITH RECONFIGURABLE MULTI-FUNCTION POWER CONVERTER	Akos Toth
1050		India	A123 owned	Pending	PCT	2830/KOLNP/2009	2/8/2008			CONTROL SYSTEM AND HYBRID VEHICLES WITH RECONFIGURABLE MULTI-FUNCTION POWER CONVERTER	Akos Toth
1050		Japan	A123 owned	Pending	PCT	2009-549284	2/8/2008			CONTROL SYSTEM AND HYBRID VEHICLES WITH RECONFIGURABLE MULTI-FUNCTION POWER CONVERTER	Akos Toth
1050		Korea	A123 owned	Pending	PCT	10-2009-7018759	2/8/2008			CONTROL SYSTEM AND HYBRID VEHICLES WITH RECONFIGURABLE MULTI-FUNCTION POWER CONVERTER	Akos Toth
1050	1	United States	A123 owned	Pending	ORD	12028772	2/8/2008			CONTROL SYSTEM FOR HYBRID VEHICLES WITH RECONFIGURABLE MULTI-FUNCTION POWER CONVERTER	Akos Toth
1051		Europe	A123 owned	Pending	PCT	08756638.6	6/2/2008			SEPARATOR INCLUDING ELECTROACTIVE MATERIAL FOR OVERCHARGE PROTECTION	Susan J Babinec, Karen E Thomas-Alyea, Richard K Holman
1051	1	United States	A123 owned	Pending	ORD	12131892	6/2/2008			SEPARATOR INCLUDING ELECTROACTIVE MATERIAL FOR OVERCHARGE PROTECTION	Susan J Babinec, Karen E Thomas-Alyea, Richard K Holman
1052	1	United States	A123 owned	Granted	DIV	972,781	12/20/2010	7879493	2/1/2011	Akali Metal Titanates And Methods For Their Synthesis	Pu Zhang, Suresh Mani, Michael R. Wixom
1052		United States	A123 owned	Granted	ORD	11/757,658	6/4/2007	7867651	1/11/2011	Akali Metal Titanates And Methods For Their Synthesis	Pu Zhang, Suresh Mani, Michael R. Wixom
1053		China	A123 owned	Pending	ORD	200780023714.2	6/5/2007			Akaiai Metal Titanates And Method For Their Synthesis	Pu Zhang, Suresh Mani, Michael R. Wixom
1053		Germany	A123 owned	Granted	ORD	112007001382.6	6/5/2007			Akaiai Metal Titanates And Method For Their Synthesis	Pu Zhang, Suresh Mani, Michael R. Wixom
1053		India	A123 owned	Pending	ORD	10772/DELNP/2008	6/5/2007			Akaiai Metal Titanates And Method For Their Synthesis	Pu Zhang, Suresh Mani, Michael R. Wixom
1053		Japan	A123 owned	Pending	ORD	2009-514491	6/5/2007			Akaiai Metal Titanates And Method For Their Synthesis	Pu Zhang, Suresh Mani, Michael R. Wixom
1053		Korea	A123 owned	Pending	ORD	10-2008-7031175	6/5/2007			Akaiai Metal Titanates And Method For Their Synthesis	Pu Zhang, Suresh Mani, Michael R. Wixom
1053		United States	A123 owned	Granted	ORD	11954,965	12/12/2007	8076030	12/13/2011	Akali Metal Titanates, And Electrodes And Batteries Based On The Same	Pu Zhang, Suresh Mani, Yet-Ming Chiang, Shih-Chieh Yrn, Brian Glorjnski, Young Jang II, Christopher Sikowski, Michael R. Wixom
1054		China	A123 owned	Pending	PCT	200880024680.3	6/9/2008			CAP ASSEMBLY FOR A HIGH CURRENT CAPACITY ENERGY DELIVERY DEVICE	Donald G Darfoe, Lucien Fontaine, William H Gardner
1054		Europe	A123 owned	Pending	PCT	08770516.6	6/9/2008			CAP ASSEMBLY FOR A HIGH CURRENT CAPACITY ENERGY DELIVERY DEVICE	Donald G Darfoe, Lucien Fontaine, William H Gardner

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1054		India	A123-owned	Pending	PCT	4289/KOLNP/2009	6/9/2008			CAP ASSEMBLY FOR A HIGH CURRENT CAPACITY ENERGY DELIVERY DEVICE	Donald G Dafoe, Lucien Fontaine, William H Gardner
1054		Japan	A123-owned	Pending	PCT	2010-511425	6/9/2008			CAP ASSEMBLY FOR A HIGH CURRENT CAPACITY ENERGY DELIVERY DEVICE	Donald G Dafoe, Lucien Fontaine, William H Gardner
1054		Korea	A123-owned	Pending	PCT	10-2010-7000354	6/9/2008			CAP ASSEMBLY FOR A HIGH CURRENT CAPACITY ENERGY DELIVERY DEVICE	Donald G Dafoe, Lucien Fontaine, William H Gardner
1054	2	United States	A123-owned	Pending	ORD	12/135708	6/9/2008	8119280	2/21/2012	CAP ASSEMBLY FOR A HIGH CURRENT CAPACITY ENERGY DELIVERY DEVICE	Donald G Dafoe, Lucien Fontaine, William H Gardner
1055		China	A123-owned	Pending	PCT	200880105630.8	7/11/2008			MULTIFUNCTIONAL MIXED METAL OLIVINES FOR LITHIUM BATTERIES	Andrew C Chu, Anthony E Pullen, Gilbert N Riley, Jr., Karen E Thomas Aiyaa, Nonglak Meethong, Yet-Ming Chiang, Yu-Hua Kao, Young Il Jang
1055		Europe	A123-owned	Pending	PCT	08796171.0	7/11/2008			MULTIFUNCTIONAL MIXED METAL OLIVINES FOR LITHIUM BATTERIES	Andrew C Chu, Anthony E Pullen, Gilbert N Riley, Jr., Karen E Thomas Aiyaa, Nonglak Meethong, Yet-Ming Chiang, Yu-Hua Kao, Young Il Jang
1055		India	A123-owned	Pending	PCT	179/KOLNP/2010	7/11/2008			MULTIFUNCTIONAL MIXED METAL OLIVINES FOR LITHIUM BATTERIES	Andrew C Chu, Anthony E Pullen, Gilbert N Riley, Jr., Karen E Thomas Aiyaa, Nonglak Meethong, Yet-Ming Chiang, Yu-Hua Kao, Young Il Jang
1055		Japan	A123-owned	Pending	PCT	2010-516283	7/11/2008			MULTIFUNCTIONAL MIXED METAL OLIVINES FOR LITHIUM BATTERIES	Andrew C Chu, Anthony E Pullen, Gilbert N Riley, Jr., Karen E Thomas Aiyaa, Nonglak Meethong, Yet-Ming Chiang, Yu-Hua Kao, Young Il Jang
1055		Korea	A123-owned	Pending	PCT	10-2010-7003179	7/11/2008			MULTIFUNCTIONAL MIXED METAL OLIVINES FOR LITHIUM BATTERIES	Andrew C Chu, Anthony E Pullen, Gilbert N Riley, Jr., Karen E Thomas Aiyaa, Nonglak Meethong, Yet-Ming Chiang, Yu-Hua Kao, Young Il Jang
1055		Taiwan	A123-owned	Pending	ORD	97126662	7/14/2008			MULTIFUNCTIONAL MIXED METAL OLIVINES FOR LITHIUM BATTERIES	Andrew C Chu, Anthony E Pullen, Gilbert N Riley, Jr., Karen E Thomas Aiyaa, Nonglak Meethong, Yet-Ming Chiang, Yu-Hua Kao, Young Il Jang
1055	3	United States	A123-owned	Granted	ORD	12/172050	7/11/2008	8187735	5/29/2012	MULTIFUNCTIONAL MIXED METAL OLIVINES FOR LITHIUM BATTERIES	Young Il Jang, Yu-Hua Kao, Yet-Ming Chiang, Nonglak Meethong, Karen E Thomas Aiyaa, Andrew C Chu, Anthony E Pullen, Gilbert N Riley, Jr.
1055	4	United States	A123-owned	Pending	ORD	13/482649	5/29/2012			MULTIFUNCTIONAL MIXED METAL OLIVINES FOR LITHIUM BATTERIES	Young Il Jang, Yu-Hua Kao, Yet-Ming Chiang, Nonglak Meethong, Karen E Thomas Aiyaa, Andrew C Chu, Anthony E Pullen, Gilbert N Riley, Jr.
1056		China	A123-owned	Pending	PCT	200880105517.X	7/24/2008			BATTERY CELL DESIGN AND METHODS OF ITS CONSTRUCTION	William H Gardner, Grace S Chang
1056		Europe	A123-owned	Pending	PCT	08796559.6	7/24/2008			BATTERY CELL DESIGN AND METHODS OF ITS CONSTRUCTION	William H Gardner, Grace S Chang
1056		India	A123-owned	Pending	PCT	177/KOLNP/2010	7/24/2008			BATTERY CELL DESIGN AND METHODS OF ITS CONSTRUCTION	William H Gardner, Grace S Chang
1056		Japan	A123-owned	Pending	PCT	2010-516388	7/24/2008			BATTERY CELL DESIGN AND METHODS OF ITS CONSTRUCTION	William H Gardner, Grace S Chang
1056		Korea	A123-owned	Pending	PCT	10-2010-7003935	7/24/2008			BATTERY CELL DESIGN AND METHODS OF ITS CONSTRUCTION	William H Gardner, Grace S Chang
1056		United States	A123-owned	Pending	ORD	12/178538	7/23/2008			BATTERY CELL DESIGN AND METHODS OF ITS CONSTRUCTION	William H Gardner, Grace S Chang
1058		China	A123-owned	Pending	PCT	200880112056.8	8/21/2008			SEPARATOR FOR ELECTROCHEMICAL CELL AND METHOD FOR ITS MANUFACTURE	Susan J Babinec, Angela Krapp, Gregory B Less
1058		Europe	A123-owned	Pending	PCT	08827786.8	8/21/2008			SEPARATOR FOR ELECTROCHEMICAL CELL AND METHOD FOR ITS MANUFACTURE	Susan J Babinec, Angela Krapp, Gregory B Less
1058		Japan	A123-owned	Pending	PCT	2010-522046	8/21/2008			SEPARATOR FOR ELECTROCHEMICAL CELL AND METHOD FOR ITS MANUFACTURE	Susan J Babinec, Angela Krapp, Gregory B Less

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1058		Korea	A123 owned	Pending	PCT	2010-7006170	8/21/2008			SEPARATOR FOR ELECTROCHEMICAL CELL AND METHOD FOR ITS MANUFACTURE	Susan J Babinec, Angela Krapp, Gregory B Less
1058	1	United States	A123 owned	Pending	ORD	12/196203	8/21/2008			SEPARATOR FOR ELECTROCHEMICAL CELL AND METHOD FOR ITS MANUFACTURE	Susan J Babinec, Angela Krapp, Gregory B Less
1059		China	A123 owned	Pending	PCT	200880115322.3	9/15/2008			LITHIUM RECHARGABLE CELL WITH REFERENCE ELECTRODE FOR STATE OF HEALTH MONITORING	Yei-Ming Chiang, William E Gardner, Karen E Thomas Aveya, Ricardo Fulop
1059		Europe	A123 owned	Pending	PCT	08830896.0	9/15/2008			LITHIUM RECHARGABLE CELL WITH REFERENCE ELECTRODE FOR STATE OF HEALTH MONITORING	Yei-Ming Chiang, William E Gardner, Karen E Thomas Aveya, Ricardo Fulop
1059		Japan	A123 owned	Pending	PCT	2010-525072	9/15/2008			LITHIUM RECHARGABLE CELL WITH REFERENCE ELECTRODE FOR STATE OF HEALTH MONITORING	Yei-Ming Chiang, William E Gardner, Karen E Thomas Aveya, Ricardo Fulop
1059		Korea	A123 owned	Pending	PCT	10-2010-7008020	9/15/2008			LITHIUM RECHARGABLE CELL WITH REFERENCE ELECTRODE FOR STATE OF HEALTH MONITORING	Yei-Ming Chiang, William E Gardner, Karen E Thomas Aveya, Ricardo Fulop
1059	2	United States	A123 owned	Granted	ORD	12/210612	9/15/2008	8163410	4/24/2012	LITHIUM RECHARGABLE CELL WITH REFERENCE ELECTRODE FOR STATE OF HEALTH MONITORING	Yei-Ming Chiang, William E Gardner, Karen E Thomas Aveya, Ricardo Fulop
1059	3	United States	A123 owned	Pending	ORD	13/448999	4/17/2012			LITHIUM RECHARGABLE CELL WITH REFERENCE ELECTRODE FOR STATE OF HEALTH MONITORING	Yei-Ming Chiang, William E Gardner, Karen E Thomas Aveya, Ricardo Fulop
1060		China	A123 owned	Pending	PCT	200880109165.5	9/29/2008			BATTERIES HAVING INORGANIC/ORGANIC POROUS FILMS	Gregory B Less, Susan J Babinec, Gilbert N Riley, Jr.
1060		Europe	A123 owned	Pending	PCT	08833067.5	9/29/2008			BATTERIES HAVING INORGANIC/ORGANIC POROUS FILMS	Gregory B Less, Susan J Babinec, Gilbert N Riley, Jr.
1060		Japan	A123 owned	Pending	PCT	2010-527240	9/29/2008			BATTERIES HAVING INORGANIC/ORGANIC POROUS FILMS	Gregory B Less, Susan J Babinec, Gilbert N Riley, Jr.
1060		Korea	A123 owned	Pending	PCT	10-2010-7009415	9/29/2008			BATTERIES HAVING INORGANIC/ORGANIC POROUS FILMS	Gregory B Less, Susan J Babinec, Gilbert N Riley, Jr.
1060		Taiwan	A123 owned	Pending	ORD	97137609	9/30/2008			BATTERIES HAVING INORGANIC/ORGANIC POROUS FILMS	Gregory B Less, Susan J Babinec, Gilbert N Riley, Jr.
1060	1	United States	A123 owned	Pending	ORD	12/240855	9/29/2008			BATTERIES HAVING INORGANIC/ORGANIC POROUS FILMS	Gregory B Less, Susan J Babinec, Gilbert N Riley, Jr.
1061		China	A123 owned	Pending	PCT	20880123705.5	11/25/2008			BATTERY CELL DESIGN WITH ASYMMETRICAL TERMINALS	William H Gardner, Stephen Tillmann
1061		Europe	A123 owned	Pending	PCT	8856364.8	11/25/2008			BATTERY CELL DESIGN WITH ASYMMETRICAL TERMINALS	William H Gardner, Stephen Tillmann
1061		India	A123 owned	Pending	PCT	3203/CHEMP/2010	11/25/2008			BATTERY CELL DESIGN WITH ASYMMETRICAL TERMINALS	William H Gardner, Stephen Tillmann
1061		Japan	A123 owned	Pending	PCT	2010-536145	11/25/2008			BATTERY CELL DESIGN WITH ASYMMETRICAL TERMINALS	William H Gardner, Stephen Tillmann
1061		Korea	A123 owned	Pending	PCT	10-2010-7014251	11/25/2008			BATTERY CELL DESIGN WITH ASYMMETRICAL TERMINALS	William H Gardner, Stephen Tillmann
1061		Taiwan	A123 owned	Pending	ORD	97146044	11/27/2008			BATTERY CELL DESIGN WITH ASYMMETRICAL TERMINALS	William H Gardner, Stephen Tillmann
1061		United States	A123 owned	Pending	ORD	12/323197	11/25/2008			BATTERY CELL DESIGN WITH ASYMMETRICAL TERMINALS	William H Gardner, Stephen Tillmann
1062		China	A123 owned	Pending	PCT	200980105562.6	1/21/2009			MIXED METAL OLIVINE ELECTRODE MATERIALS FOR LITHIUM ION BATTERIES	Larry W Beck, Chunqiang Xu, Luya Wang, Phillip Stotles, Anthony E Pullen
1062		Europe	A123 owned	Pending	PCT	9701906.1	1/21/2009			MIXED METAL OLIVINE ELECTRODE MATERIALS FOR LITHIUM ION BATTERIES	Larry W Beck, Chunqiang Xu, Luya Wang, Phillip Stotles, Anthony E Pullen
1062		India	A123 owned	Pending	PCT	4912/CHEMP/2010	1/21/2009			MIXED METAL OLIVINE ELECTRODE MATERIALS FOR LITHIUM ION BATTERIES	Larry W Beck, Chunqiang Xu, Luya Wang, Phillip Stotles, Anthony E Pullen
1062		Japan	A123 owned	Pending	PCT	2010-543309	1/21/2009			MIXED METAL OLIVINE ELECTRODE MATERIALS FOR LITHIUM ION BATTERIES	Larry W Beck, Chunqiang Xu, Luya Wang, Phillip Stotles, Anthony E Pullen
1062		Korea	A123 owned	Pending	PCT	10-2010-2018198	1/21/2009			MIXED METAL OLIVINE ELECTRODE MATERIALS FOR LITHIUM ION BATTERIES	Larry W Beck, Chunqiang Xu, Luya Wang, Phillip Stotles, Anthony E Pullen

A123 Case Number	A123 SubCase	Country	Owner	Status	CaseType	App. No.	Filing Date	Pat. No.	Pat. Date	ApTitle	Inventor
1062		Taiwan	A123 owned	Pending	ORD	98101842	1/17/2009			MIXED METAL OLIVINE ELECTRODE MATERIALS FOR LITHIUM ION BATTERIES	Larry W Beck, Chuanjing Xu, Luya Wang, Phillip Sholtes, Anthony E Pullen
1062	1	United States	A123 owned	Pending	ORD	12/357008	1/21/2009			MIXED METAL OLIVINE ELECTRODE MATERIALS FOR LITHIUM ION BATTERIES	Larry W Beck, Chuanjing Xu, Luya Wang, Phillip Sholtes, Anthony E Pullen
1063		Canada	A123 owned	Pending	ORD	2719764				HIGH ENERGY HIGH POWER ELECTRODES AND BATTERIES	Yet-Ming Chiang, Michael Wixom, Andrew C Chiu, Young-II Jang
1063		China	A123 owned	Pending	ORD	200980117447.4				HIGH ENERGY HIGH POWER ELECTRODES AND BATTERIES	Yet-Ming Chiang, Michael Wixom, Andrew C Chiu, Young-II Jang
1063		Europe	A123 owned	Pending	ORD	09724612.8				HIGH ENERGY HIGH POWER ELECTRODES AND BATTERIES	Yet-Ming Chiang, Michael Wixom, Andrew C Chiu, Young-II Jang
1063		India	A123 owned	Pending	ORD	3978/KOLNP/2010				HIGH ENERGY HIGH POWER ELECTRODES AND BATTERIES	Yet-Ming Chiang, Michael Wixom, Andrew C Chiu, Young-II Jang
1063		Japan	A123 owned	Pending	ORD	2011-502033				HIGH ENERGY HIGH POWER ELECTRODES AND BATTERIES	Yet-Ming Chiang, Michael Wixom, Andrew C Chiu, Young-II Jang
1063		Korea	A123 owned	Pending	ORD	10-2010-7023387				HIGH ENERGY HIGH POWER ELECTRODES AND BATTERIES	Yet-Ming Chiang, Michael Wixom, Andrew C Chiu, Young-II Jang
1063		PCT	A123 owned	Pending	ORD	US09/38308	3/25/2009			HIGH ENERGY HIGH POWER ELECTRODES AND BATTERIES	Yet-Ming Chiang, Michael Wixom, Andrew C Chiu, Young-II Jang
1063	1	United States	A123 owned	Pending	ORD	12/411380	3/25/2009			HIGH ENERGY HIGH POWER ELECTRODES AND BATTERIES	Yet-Ming Chiang, Michael Wixom, Andrew C Chiu, Young-II Jang
1064		Brazil	A123 owned	Pending	ORD	P0910105-5				METHOD FOR DETECTING CELL STATE OF-CHARGE AND STATE OF- DISCHARGE DIVERGENCE OF A SERIES STRING OF BATTERIES OR CAPACITORS	Michael C Hoff
1064		Canada	A123 owned	Pending	ORD	2720231				METHOD FOR DETECTING CELL STATE OF-CHARGE AND STATE OF- DISCHARGE DIVERGENCE OF A SERIES STRING OF BATTERIES OR CAPACITORS	Michael C Hoff
1064		China	A123 owned	Pending	ORD	200980116991.7				METHOD FOR DETECTING CELL STATE OF-CHARGE AND STATE OF- DISCHARGE DIVERGENCE OF A SERIES STRING OF BATTERIES OR CAPACITORS	Michael C Hoff
1064		Europe	A123 owned	Pending	ORD	2272148				METHOD FOR DETECTING CELL STATE OF-CHARGE AND STATE OF- DISCHARGE DIVERGENCE OF A SERIES STRING OF BATTERIES OR CAPACITORS	Michael C Hoff
1064		India	A123 owned	Pending	ORD	3632/KOLNP/2010				METHOD FOR DETECTING CELL STATE OF-CHARGE AND STATE OF- DISCHARGE DIVERGENCE OF A SERIES STRING OF BATTERIES OR CAPACITORS	Michael C Hoff
1064		Japan	A123 owned	Pending	ORD	2011-503118				METHOD FOR DETECTING CELL STATE OF-CHARGE AND STATE OF- DISCHARGE DIVERGENCE OF A SERIES STRING OF BATTERIES OR CAPACITORS	Michael C Hoff
1064		Korea	A123 owned	Pending	ORD	10-2010-7024200				METHOD FOR DETECTING CELL STATE OF-CHARGE AND STATE OF- DISCHARGE DIVERGENCE OF A SERIES STRING OF BATTERIES OR CAPACITORS	Michael C Hoff
1064		PCT	A123 owned	Pending	ORD	US09/39040	3/31/2009			METHOD FOR DETECTING CELL STATE OF-CHARGE AND STATE OF- DISCHARGE DIVERGENCE OF A SERIES STRING OF BATTERIES OR CAPACITORS	Michael C Hoff
1064	1	United States	A123 owned	Pending	ORD	12/416072	3/31/2009			METHOD FOR DETECTING CELL STATE OF-CHARGE AND STATE OF- DISCHARGE DIVERGENCE OF A SERIES STRING OF BATTERIES OR CAPACITORS	Michael C Hoff
1065		Brazil	A123 owned	Pending	ORD	P0911250-2				FLEXIBLE VOLTAGE NESTED BATTERY MODULE DESIGN	Mujeeb Ijaz, Brian Moorhead, Jonathan Josler, Brian Rutkowski, Shazad Butt



A123 Case Number	A123 Subcase	Country	Owner	Status	Case type	App. No.	Filing Date	Pat. No.	Pat. Date	Apptitle	Inventor
1065		Europe	A123-owned	Pending	ORD	09767167.1				FLEXIBLE VOLTAGE NESTED BATTERY MODULE DESIGN	Mujeob Jaz, Brian Moorhead, Jonathan Jostler, Brian Rukowski, Shazad Butt
1065		Japan	A123-owned	Pending	ORD	2011-505152				FLEXIBLE VOLTAGE NESTED BATTERY MODULE DESIGN	Mujeob Jaz, Brian Moorhead, Jonathan Jostler, Brian Rukowski, Shazad Butt
1065		PCT	A123-owned	Pending	ORD	US09/40563	4/14/2009			FLEXIBLE VOLTAGE NESTED BATTERY MODULE DESIGN	Mujeob Jaz, Brian Moorhead, Jonathan Jostler, Brian Rukowski, Shazad Butt
1065	1	United States	A123-owned	Pending	ORD	12/423799	4/14/2009			FLEXIBLE VOLTAGE NESTED BATTERY MODULE DESIGN	Mujeob Jaz, Brian Moorhead, Jonathan Jostler, Brian Rukowski, Shazad Butt
1066		PCT	A123-owned	Pending	ORD	US09/46281	6/4/2009			METHOD AND SYSTEM FOR DETERMINING STATE OF CHARGE OF AN ENERGY DELIVERY DEVICE	Karen E Thomas-Ayva
1066	1	United States	A123-owned	Pending	ORD	12/477382	6/3/2009			METHOD AND SYSTEM FOR DETERMINING STATE OF CHARGE OF AN ENERGY DELIVERY DEVICE	Karen E Thomas-Ayva
1068		PCT	A123-owned	Pending	ORD	US09/50580	7/14/2009			PRISMATIC CELL WITH OUTER ELECTRODE LAYERS COATED ON A SINGLE SIDE	Seong Woo Park, Myoung Shin Hong, Whan Jin Roh, Sang Young Yoon
1068		United States	A123-owned	Pending	ORD	12/502855	7/14/2009			PRISMATIC CELL WITH OUTER ELECTRODE LAYERS COATED ON A SINGLE SIDE	Seong Woo Park, Myoung Shin Hong, Whan Jin Roh, Sang Young Yoon
1069		PCT	A123-owned	Pending	ORD	US09/56678	9/11/2009			SPLIT CHARGE FORMING PROCESS FOR BATTERY	
1069		United States	A123-owned	Pending	ORD	12/558091	9/11/2009			SPLIT CHARGE FORMING PROCESS FOR BATTERY	San Young Yoon, Rocco Iocco
1070	1	China	A123-owned	Pending	ORD	200910258463.7	11/25/2009			METHOD AND DESIGN FOR EXTERNALLY APPLIED LASER WELDING OF INTERNAL CONNECTIONS IN A HIGH POWER ELECTROCHEMICAL CELL	William H Gardner, Lucien Fontaine, Charles E Marin
1070		China	A123-owned	Pending	UTM	200920178049.0	11/25/2009	ZL200920178049.0	3/23/2011	METHOD AND DESIGN FOR EXTERNALLY APPLIED LASER WELDING OF INTERNAL CONNECTIONS IN A HIGH POWER ELECTROCHEMICAL CELL	William H Gardner, Lucien Fontaine, Charles E Marin
1070		Germany	A123-owned	Pending	PCT	112009003624.4	5/23/2011			METHOD AND DESIGN FOR EXTERNALLY APPLIED LASER WELDING OF INTERNAL CONNECTIONS IN A HIGH POWER ELECTROCHEMICAL CELL	William H Gardner, Lucien Fontaine, Charles E Marin
1070		Japan	A123-owned	Pending	PCT	2011-538644	5/24/2011			METHOD AND DESIGN FOR EXTERNALLY APPLIED LASER WELDING OF INTERNAL CONNECTIONS IN A HIGH POWER ELECTROCHEMICAL CELL	William H Gardner, Lucien Fontaine, Charles E Marin
1070		Korea	A123-owned	Pending	PCT	10-2011-7014265	5/25/2011			METHOD AND DESIGN FOR EXTERNALLY APPLIED LASER WELDING OF INTERNAL CONNECTIONS IN A HIGH POWER ELECTROCHEMICAL CELL	William H Gardner, Lucien Fontaine, Charles E Marin
1070		Taiwan	A123-owned	Pending	ORD	98144298	12/22/2009			METHOD AND DESIGN FOR EXTERNALLY APPLIED LASER WELDING OF INTERNAL CONNECTIONS IN A HIGH POWER ELECTROCHEMICAL CELL	William H Gardner, Lucien Fontaine, Charles E Marin
1070	1	United States	A123-owned	Pending	ORD	12/623867	11/23/2009			METHOD AND DESIGN FOR EXTERNALLY APPLIED LASER WELDING OF INTERNAL CONNECTIONS IN A HIGH POWER ELECTROCHEMICAL CELL	William H Gardner, Lucien Fontaine, Charles E Marin
1071		China	A123-owned	Pending	ORD	200980103123.5	1/9/2009			Silicon Based Composite Material	Pu Zhang, Suresh Mani, Junching Ma, Liya Wang
1071		Japan	A123-owned	Pending	ORD	2010-542364	1/9/2009			Silicon Based Composite Material	Pu Zhang, Suresh Mani, Junching Ma, Liya Wang
1071		Korea	A123-owned	Pending	ORD	10-2010-7017817	1/9/2009			Silicon Based Composite Material	Pu Zhang, Suresh Mani, Junching Ma, Liya Wang
1071		PCT	A123-owned	Pending	ORD	US10/20769	1/12/2010			LAMINATED BATTERY CELL AND METHODS FOR CREATING THE SAME	Pu Zhang, Suresh Mani, Junching Ma, Liya Wang
1071		United States	A123-owned	Pending	ORD	12/350,631	1/8/2009			Silicon Based Composite Material	Pu Zhang, Suresh Mani, Junching Ma, Liya Wang

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1072	1	China	A123-owned	Pending	ORD	20108001817.9	10/27/2011			LAMINATED BATTERY CELL AND METHODS FOR CREATING THE SAME	Susan J Babinec, Gregory B Less, Dave Veau
1072		China	A123-owned	Pending	PCT	201080011817.9	1/11/2010			PRISMATIC BATTERY MODULE WITH SCALABLE ARCHITECTURE	Shazad Butt, Jonathan Hostler, Majeed Ijaz
1072		Germany	A123-owned	Pending	PCT	112010000853.1	1/12/2010			PRISMATIC BATTERY MODULE WITH SCALABLE ARCHITECTURE	Shazad Butt, Jonathan Hostler, Majeed Ijaz
1072		Taiwan	A123-owned	Pending	ORD	99100669	1/12/2010			LAMINATED BATTERY CELL AND METHODS FOR CREATING THE SAME	Susan J Babinec, Gregory B Less, Dave Veau
1072	1	United States	A123-owned	Pending	ORD	12685838	1/12/2010			LAMINATED BATTERY CELL AND METHODS FOR CREATING THE SAME	Susan J Babinec, Gregory B Less, Dave Veau
1073		Germany	A123-owned	Pending	PCT	0	7/12/2011			PRISMATIC BATTERY MODULE WITH SCALABLE ARCHITECTURE	Shazad Butt, Jonathan Hostler, Majeed Ijaz
1073		Korea	A123-owned	Pending	PCT	10-2011-7018684	7/11/2011			PRISMATIC BATTERY MODULE WITH SCALABLE ARCHITECTURE	Shazad Butt, Jonathan Hostler, Majeed Ijaz
1073		Taiwan	A123-owned	Pending	ORD	99100677	1/12/2010			PRISMATIC BATTERY MODULE WITH SCALABLE ARCHITECTURE	Shazad Butt, Jonathan Hostler, Majeed Ijaz
1073	2	United States	A123-owned	Pending	ORD	13441078	4/6/2012	61/143977	1/13/2009	PRISMATIC BATTERY MODULE WITH SCALABLE ARCHITECTURE	Shazad Butt, Jonathan Hostler, Majeed Ijaz
1073	1	United States	A123-owned	Pending	ORD	12628809	12/1/2009			PRISMATIC BATTERY MODULE WITH SCALABLE ARCHITECTURE	Shazad Butt, Jonathan Hostler, Majeed Ijaz
1074		United States	A123-owned	Pending	ORD	12628786	12/1/2009			BUSBAR SUPPORTS AND METHODS OF THEIR USE FOR BATTERY SYSTEMS	Mujeed Ijaz, Shazad Butt, Jonathan Hostler
1075		China	A123-owned	Pending	PCT	2010080000568.3	1/11/2010			FUSE FOR BATTERY CELLS	Mujeed Ijaz, Shazad Butt, Jonathan Hostler, Brian David Rulikowski, Benjamin Jay Sinsheimer, Chad Jeremy Allison
1075		Germany	A123-owned	Pending	PCT	10-2011-7018696	10/20/2011			FUSE FOR BATTERY CELLS	Mujeed Ijaz, Shazad Butt, Jonathan Hostler, Brian David Rulikowski, Benjamin Jay Sinsheimer, Chad Jeremy Allison
1075		Korea	A123-owned	Pending	PCT	10-2011-7018696	10/20/2011			FUSE FOR BATTERY CELLS	Mujeed Ijaz, Shazad Butt, Jonathan Hostler, Brian David Rulikowski, Benjamin Jay Sinsheimer, Chad Jeremy Allison
1075		Taiwan	A123-owned	Pending	ORD	99100674	1/12/2010			FUSE FOR BATTERY CELLS	Mujeed Ijaz, Shazad Butt, Jonathan Hostler, Brian David Rulikowski, Benjamin Jay Sinsheimer, Chad Jeremy Allison
1075		United States	A123-owned	Pending	ORD	12628796	12/1/2009			FUSE FOR BATTERY CELLS	Mujeed Ijaz, Shazad Butt, Jonathan Hostler, Brian David Rulikowski, Benjamin Jay Sinsheimer, Chad Jeremy Allison
1076		China	A123-owned	Pending	PCT	201080000567.9	1/11/2010			SAFETY VENTING MECHANISM FOR BATTERIES	Andrew Hong, Mujeed Ijaz, Jonathan Hostler, Shazad Butt, Whan Jin Roh
1076		Germany	A123-owned	Pending	PCT	112010000764	7/11/2011			SAFETY VENTING MECHANISM FOR BATTERIES	Andrew Hong, Mujeed Ijaz, Jonathan Hostler, Shazad Butt, Whan Jin Roh
1076		Taiwan	A123-owned	Pending	ORD	99100672	1/12/2010			SAFETY VENTING MECHANISM FOR BATTERIES	Andrew Hong, Mujeed Ijaz, Jonathan Hostler, Shazad Butt, Whan Jin Roh
1076	1	United States	A123-owned	Pending	ORD	12628713	12/1/2009			SAFETY VENTING MECHANISM FOR BATTERIES	Andrew Hong, Mujeed Ijaz, Jonathan Hostler, Shazad Butt, Whan Jin Roh
1076	2	United States	A123-owned	Pending	ORD	12628733	12/1/2009			STRUCTURE OF PRISMATIC BATTERY MODULES WITH SCALABLE ARCHITECTURE	Shazad Butt, Jonathan Hostler, Majeed Ijaz
1076	3	United States	A123-owned	Pending	ORD	12628699	12/1/2009			METHODS OF WELDING BATTERY TERMINALS	Shazad Butt, Jonathan Hostler, Majeed Ijaz
1079		China	A123-owned	Pending	ORD		12/10/2011			System and method for controlling output of a battery pack	Brian Rulikowski, Brian Moorhead
1079		Korea	A123-owned	Pending	ORD	10-2012-7000680	1/9/2012			System and method for controlling output of a battery pack	Brian Rulikowski, Brian Moorhead
1079		UK	A123-owned	Pending	ORD	1200045.1	1/4/2012			System and method for controlling output of a battery pack	Brian Rulikowski, Brian Moorhead

A123 Case Number	A123 SubCase	Country	Owner	Status	CaseType	App. No.	Filing Date	Pat. No.	Pat. Date	Apptitle	Inventor
1079		United States	A123-owned	Pending	ORD	13376,572	12/6/2011			System and method for controlling output of a battery pack	Brian Rutkowski, Brian Moorthead
1080		China	A123-owned	Pending	ORD		12/10/2011			System and method for a battery pack output contactor	Brian Rutkowski, Brian Moorthead
1080		Germany	A123-owned	Pending	ORD		12/10/2011			System and method for a battery pack output contactor	Brian Rutkowski, Brian Moorthead
1080		Japan	A123-owned	Pending	ORD		12/10/2011			System and method for a battery pack output contactor	Brian Rutkowski, Brian Moorthead
1080		Korea	A123-owned	Pending	ORD	10-2012-7000621	1/9/2012			System and method for a battery pack output contactor	Brian Rutkowski, Brian Moorthead
1080		United States	A123-owned	Pending	ORD	13376,568	12/6/2011			System and method for a battery pack output contactor	Brian Rutkowski, Brian Moorthead
1081		China	A123-owned	Pending	ORD		12/10/2011			System and method for controlling output of a battery pack	Brian Rutkowski, Brian Moorthead
1081		Korea	A123-owned	Pending	ORD	10-2012-7000688	1/9/2012			System and method for controlling output of a battery pack	Brian Rutkowski, Brian Moorthead
1081		United States	A123-owned	Pending	ORD	13376,569	12/6/2011			System and method for controlling output of a battery pack	Brian Rutkowski, Brian Moorthead
1082		Korea	A123-owned	Pending	ORD	10-2012-7000651	1/9/2012			BATTERY NETWORK WITH HARDWARE WATCHDOG	Brian Moorthead, Brian Rutkowski, Paul W Friehtammer, John W Wagner
1082	1	United States	A123-owned	Pending	ORD	12/796,810	6/10/2010			BATTERY NETWORK WITH HARDWARE WATCHDOG	Brian Moorthead, Brian Rutkowski, Paul W Friehtammer, John W Wagner
1082		United States	A123-owned	Pending	PRO	61/185774	6/10/2009			BATTERY NETWORK WITH HARDWARE WATCHDOG	Brian Moorthead, Brian Rutkowski, Paul W Friehtammer, John W Wagner
1083		PCT	A123-owned	Pending	ORD	US1039629	6/23/2010			BATTERY ELECTRODES AND METHODS OF MANUFACTURE	Shen J Dillon, Yet-Ming Chiang
1083		Taiwan	A123-owned	Pending	ORD	99120445	6/23/2010			BATTERY ELECTRODES AND METHODS OF MANUFACTURE	Shen J Dillon, Yet-Ming Chiang
1083	1	United States	A123-owned	Pending	PRO	12821779	6/23/2010			BATTERY ELECTRODES AND METHODS OF MANUFACTURE	Shen J Dillon, Yet-Ming Chiang
1084		PCT	A123-owned	Pending	PRO	10/046646	8/25/2010			MIXED METAL OLIVINE ELECTRODE MATERIALS FOR LITHIUM ION BATTERIES HAVING IMPROVED SPECIFIC CAPACITY AND ENERGY DENSITY	Chuangting Xu, Larry W Beck, Young Il Jang
1084		TW	A123-owned	Pending	ORD	99128478				MIXED METAL OLIVINE ELECTRODE MATERIALS FOR LITHIUM ION BATTERIES HAVING IMPROVED SPECIFIC CAPACITY AND ENERGY DENSITY	Chuangting Xu, Larry W Beck, Young Il Jang
1084	1	United States	A123-owned	Pending	ORD	12868530	8/25/2010			MIXED METAL OLIVINE ELECTRODE MATERIALS FOR LITHIUM ION BATTERIES HAVING IMPROVED SPECIFIC CAPACITY AND ENERGY DENSITY	Chuangting Xu, Larry W Beck, Young Il Jang
1084		United States	A123-owned	Pending	PRO	61/236662	8/25/2009			MIXED METAL OLIVINE ELECTRODE MATERIALS FOR LITHIUM ION BATTERIES HAVING IMPROVED SPECIFIC CAPACITY AND ENERGY DENSITY	Chuangting Xu, Larry W Beck, Young Il Jang
1085		PCT	A123-owned	Pending	ORD	US1049480	9/20/2010			FERRIC PHOSPHATE DIHYDRATE AS LITHIUM ION PHOSPHATE SYNTHETIC PRECURSOR AND METHOD OF PREPARATION THEREOF	Mahtooki Soliani, Larry W Beck, Lya Wang
1085		Taiwan	A123-owned	Pending	ORD	99131826				FERRIC PHOSPHATE DIHYDRATE AS LITHIUM ION PHOSPHATE SYNTHETIC PRECURSOR AND METHOD OF PREPARATION THEREOF	Mahtooki Soliani, Larry W Beck, Lya Wang
1085	1	United States	A123-owned	Pending	ORD	12885907	20 Sep 2010			FERRIC PHOSPHATE DIHYDRATE AS LITHIUM ION PHOSPHATE SYNTHETIC PRECURSOR AND METHOD OF PREPARATION THEREOF	Mahtooki Soliani, Larry W Beck, Lya Wang

A123 Case Number	A123 Subcase	Country	Owner	Status	Case type	App. No.	Filing Date	Pat. No.	Pat. Date	Apptitle	Inventor
1085		United States	A123-owned	Pending	PRO	61/243846	9/18/2009			FERRIC PHOSPHATE DIHYDRATE AS LITHIUM ION PHOSPHATE SYNTHETIC PRECURSOR AND METHOD OF PREPARATION THEREOF	Manrochi Soliani, Larry W Beck, Lya Wang
1086		PCT	A123-owned	Pending	ORD	US10/50527				BATTERY-BASED COUNTERMEASURE FOR BULK ELECTRIC SYSTEM DELAYED VOLTAGE RECOVERY	Charles Vartanian, David Colucci, Peter Gottlieb, Michael C Hoffman
1086	1	United States	A123-owned	Pending	ORD	12/891,945	9/28/2010			BATTERY-BASED COUNTERMEASURE FOR BULK ELECTRIC SYSTEM DELAYED VOLTAGE RECOVERY	Charles Vartanian, David Colucci, Peter Gottlieb, Michael C Hoffman
1087		PCT	A123-owned	Pending	ORD	2011/063132	5/26/2011			COMPOSITE SEPARATOR FOR ELECTROCHEMICAL CELL AND METHOD FOR ITS MANUFACTURE	Patrick Hagans, William Hicks, Yei-Ming Chiang, Susan J Babinec
1087		United States	A123-owned	Pending	ORD	13/509,899	5/15/2012			COMPOSITE SEPARATOR FOR ELECTROCHEMICAL CELL AND METHOD FOR ITS MANUFACTURE	Patrick Hagans, William Hicks, Yei-Ming Chiang, Susan J Babinec
1089		United States	A123-owned	Pending	PRO	61/264046	11/24/2009			ELECTROLYTE WITH IMPROVED WETTING PROPERTIES	Jeong Ju Cho, Anton S Gozdz
1090		United States	A123-owned	Pending	PRO	61/264951	11/30/2009			FERRIC PHOSPHATE AND METHODS OF PREPARATION THEREOF	Larry W Beck, Guanjing Xu, Lya Wang, Phillip Stotles, Anthony E Pullen
1091		United States	A123-owned	Pending	ORD	13/513,542	6/1/2012			ELECTRICAL INSULATOR FOR ELECTROCHEMICAL CELL	William H Gardner, Lucine Fontaine, Charles E Martin, Keith M Bibby, Dale Beaver
1092	1	United States	A123-owned	Pending	ORD	13/513,024	5/31/2012			GRID LOAD SYNCHRONIZATION DEVICE AND METHOD	Peter Gottlieb, John M McNally
1093		China	A123-owned	Pending	ORD					AUTOMOTIVE BATTERY WITH INTEGRATED POWER MANAGEMENT SYSTEM AND SCALABLE BATTERY CUTOFF COMPONENT	Brian J Pewear
1093		Europe	A123-owned	Pending	ORD					AUTOMOTIVE BATTERY WITH INTEGRATED POWER MANAGEMENT SYSTEM AND SCALABLE BATTERY CUTOFF COMPONENT	Brian J Pewear
1093	1	United States	A123-owned	Pending	ORD	13/513,665	6/4/2012			AUTOMOTIVE BATTERY WITH INTEGRATED POWER MANAGEMENT SYSTEM AND SCALABLE BATTERY CUTOFF COMPONENT	Brian J Pewear
1094		PCT	A123-owned	Pending	ORD	PCT/US2010/060332	12/14/2010			System and Method for Controlling Humidity in a Battery Module	Chad Jeromy Allison
1095		PCT	A123-owned	Pending	ORD	PCT/US10/60112	12/13/2010			System and Method for Estimating a State of a Battery Pack	Gary R. O'Brien, Brian D. Rutkowski, Shazad Mahmood Butt
1095		United States	A123-owned	Pending	ORD	13/514,711	6/8/2012			System and Method for Estimating a State of a Battery Pack	Gary R. O'Brien, Brian D. Rutkowski, Shazad Mahmood Butt
1096		United States	A123-owned	Pending	ORD	13/517,903	6/20/2012			METAL OXIDE ANODE MATERIAL	Rocco Iocco, Sang Young Park
1097		PCT	A123-owned	Pending	ORD	PCT/US10/62351	12/29/2010			System and Method for Controlling Voltage of Individual Battery Cells Within a Battery Pack	Paul W. Fiehlhammer, John H. Flores
1098		PCT	A123-owned	Pending	ORD	PCT/US11/20078	1/4/2011			System and Method for Monitoring and Balancing Voltage of Individual Battery Cells Within a Battery Pack	Paul W. Fiehlhammer, Brian C. Moorhead
1099		PCT	A123-owned	Pending	ORD	PCT/US11/20692	1/10/2011			System and Method Providing Power Within a Battery Pack	Brian D. Rutkowski, Brian C. Moorhead, Paul W. Fiehlhammer, Jack W. Wagner
1099	1	United States	A123-owned	Pending	ORD	12/796,810	6/9/2010			System and Method for Monitoring and Balancing Voltage of Individual Battery Cells Within a Battery Pack	Paul W. Fiehlhammer, Brian C. Moorhead
1100		PCT	A123-owned	Pending	ORD	PCT/US2011	1/26/2011			System and Method Providing Power Within a Battery Pack	Brian D. Rutkowski, Brian C. Moorhead, Paul W. Fiehlhammer, Jack W. Wagner

A123 Case Number	A123 SubCase	Country	Owner	Status	Case type	App. No.	Filing Date	Pat. No.	Pat. Date	Apptitle	Inventor
1101		PCT	A123-owned	Pending	ORD	PCT/US2011/023680	2/4/2011			System and Method for Assessing Voltage Threshold Detecting Circuitry Within a Battery Pack	Paul W. Friehtammer John H. Flores
1102		PCT	A123-owned	Pending	PRO	PCT/US11/24758	2/11/2011			TEMPERATURE CONTROLLED PARALLEL BALANCING	David Colucci, Tom De Luca, Bud Collins, Michael C. Hoff
1103		United States	A123-owned	Pending	ORD	12/704,591	2/12/2010			Materials And Methods For The Removal Of Sulfur Compounds From Feedstock	Haimei Lei, Maha Hamroun, Adam Rand, Luya Wang
1104		PCT	A123-owned	Pending	ORD	PCT/US11/27416	3/7/2011			DESIGN AND FABRICATION OF ELECTRODES WITH GRADIENTS	Richard K Holman, Susan J Babinec, Karen E Thomas Aiyela, Gilbert N Riley, Jr.
1104	1	United States	A123-owned	Pending	PRO	61/393,969	10/18/2010			DESIGN AND FABRICATION OF ELECTRODES WITH GRADIENTS	Richard K Holman, Susan J Babinec, Karen E Thomas Aiyela, Gilbert N Riley, Jr.
1104		United States	A123-owned	Pending	PRO	61/310887	3/5/2010			DESIGN AND FABRICATION OF ELECTRODES WITH GRADIENTS	Richard K Holman, Susan J Babinec, Karen E Thomas Aiyela, Gilbert N Riley, Jr.
1106		PCT	A123-owned	Pending	ORD	PCT/US2011/029625	3/23/2011			System and Method for Assessing ADC Operation and Voltage of a Battery Pack	Brian C. Moorhead Paul W. Friehtammer
1107		PCT	A123-owned	Pending	ORD	PCT/US2011/029523	3/23/2011			System and Method for Controlling a Battery Pack Output Contactor	Paul W. Friehtammer Brian C. Moorhead Brian D. Rutkowski
1108		United States	A123-owned	Pending	ORD	13/079683	4/4/2011			LI ION BATTERY CATHODE MATERIALS WITH INTRINSIC OVER-DISCHARGE PROTECTION	Young-H Jang
1110		PCT	A123-owned	Pending	ORD	US2011/038873	6/2/2011			CRIMPED, PRISMATIC BATTERY STRUCTURE	Viet Vu et al.
1128		PCT	A123-owned	Pending		PCT/US11/57852	10/26/2011			BATTERY BALANCING SYSTEM (a/k/a Rack-Balancer - Part of SSGS redesign)	Peter Gottlieb
1128		United States	A123-owned	Pending		12/914,006	10/26/2010			BATTERY BALANCING SYSTEM (a/k/a Rack-Balancer - Part of SSGS redesign)	Peter Gottlieb
1133		PCT	A123-owned	Pending	ORD	PCT/US2011/038073	5/26/2011			System and Method for Monitoring Battery Bus Bars Within a Battery Pack	Kirk Engler Brian Rutkowski
1134		PCT	A123-owned	Pending	ORD	US2011/041949	6/27/2011			Banding of Battery Modules	Atar Ahmad
1135		PCT	A123-owned	Pending	ORD	US2011/041361	6/22/2011			Battery Useable Capacity Extension	Paul Friehtammer Brian Moorhead
1135		United States	A123-owned	Pending	ORD	12/820,433	6/22/2010			Battery Useable Capacity Extension	Paul Friehtammer Brian Moorhead
1136		PCT	A123-owned	Pending	ORD	US2011/041362	6/22/2011			System and method for managing change within a battery pack	Paul Friehtammer Brian Moorhead
1136		United States	A123-owned	Pending		12/820,421	6/22/2010			System and method for managing change within a battery pack	Paul Friehtammer Brian Moorhead
1138		United States	A123-owned	Pending	ORD	12/854,274	8/11/2010			Battery Management System Parasitic Power Reduction via Selective Sample Rate	Brian Moorhead Brian Rutkowski
1140		PCT	A123-owned	Pending		US2011/041365	6/22/2011			System and Method for Balancing Voltage of Individual Battery Cells Within a Battery Pack	Benjamin Srinshamer Paul W. Friehtammer
1140		United States	A123-owned	Pending		12/820,411	6/22/2010			System and Method for Balancing Voltage of Individual Battery Cells	Benjamin Srinshamer
1141		PCT	A123-owned	Pending		PCT/US2012/028039	3/7/2011			method for opportunistically balancing charge between battery cells	Moorhead
1141		United States	A123-owned	Pending		61/449,804	3/7/2011			method for opportunistically balancing charge between battery cells	Moorhead
1145		PCT	A123-owned	Pending		PCT/US11/56118	10/13/2011			INTEGRAL BATTERY TAB	Nicholas Varano, Michael Batone
1151		China	A123-owned	Pending	PCT	20108000569,80	1/11/2010			BI-METALLIC BUSBAR JUMPER AND ASSOCIATED WELDING METHODS FOR BATTERY SYSTEMS	Ijaz, Mujeeb, Butt, Shazad M., Hoslier, Jonathan E.
1151		Germany	A123-owned	Pending	PCT	11201/0000785,3	7/11/2011			BI-METALLIC BUSBAR JUMPER AND ASSOCIATED WELDING METHODS FOR BATTERY SYSTEMS	Butt, Shazad M., Hoslier, Jonathan E., Ijaz, Mujeeb
1151		Japan	A123-owned	Pending	PCT	10-2011-7018695	7/11/2011			BI-METALLIC BUSBAR JUMPER AND ASSOCIATED WELDING METHODS FOR BATTERY SYSTEMS	Butt, Shazad M., Hoslier, Jonathan E., Ijaz, Mujeeb
1151		Korea	A123-owned	Pending	ORD	10-2011-7018695	10/20/2011			BI-METALLIC BUSBAR JUMPER AND ASSOCIATED WELDING METHODS FOR BATTERY SYSTEMS	Butt, Shazad M., Hoslier, Jonathan E., Ijaz, Mujeeb

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1151		PCT	A123-owned	Pending	ORD	US10/20636	1/11/2010			BI-METALLIC BUSBAR JUMPER AND BI-METALLIC BUSBAR JUMPER AND	Burt, Shazad M.; Hostler, Jonathan E.; Jaz, Burt, Shazad M.; Hostler, Jonathan E.; Jaz,
1151		Taiwan	A123-owned	Pending	ORD	991006/5, 00	1/12/2010				
1151		United States	A123-owned	Pending	ORD	12/628/80	12/1/2009			BI-METALLIC BUSBAR JUMPERS FOR BATTERY SYSTEMS	Burt, Shazad M.; Hostler, Jonathan E.; Jaz, Majeed
1152		PCT	A123-owned	Pending	ORD	PCT/US2012/032276	4/5/2011			Extruded cold plate with integrated fluid routing	Jay Murdock, Marcus Enache
1155		United States	A123-owned	Pending	PRO	61/476, 939	4/19/2011			Thermal gap pad for a pneumatic battery pack	Allan Alimario, Jason Davis, Chad Allison, Jonathan Hostler, David Allen
1157		PCT	A123-owned	Pending	PRO	PCT/US2011/055029	10/6/2011			Method for verify Voltage Reference for battery cell monitoring	John Floros and Paul Firehammer
1158		United States	A123-owned	Pending	PRO	61/477, 295	4/20/2011			System and method for balancing charge between battery cells	John Floros and Paul Firehammer
1160		United States	A123-owned	Pending	PRO	61/503, 829	7/1/2011			Heterogeneous ohmic contact for a voltac cell	Chad Allison
1161		United States	A123-owned	Pending	PRO	61/420, 476	12/7/2010			Fast Charge Battery with Reduced Lithium Plating	Karen E. Thomas Alyea
1163	1	United States	A123-owned	Pending	ORD	13/344/28	1/5/2012			Energy distribution for welding ultrathin electrodes using sacrificial buffer material.	Shazad Burt, John Kim
1163		United States	A123-owned	Pending	PRO	61/429, 942	1/5/2011			Energy distribution for welding ultrathin electrodes using sacrificial buffer material.	Shazad Burt, John Kim
1164		United States	A123-owned	Pending	PRO	61/570, 920	12/15/2011			Hybrid Battery with Boost Energy Transfer Circuit	Michael Wixom, Wei Yu
1170		Korea	Jointly-owned (Lotte)	Pending	PCT	KR2009/00132131	12/28/2009			SEPARATOR WITH NANO-SCALED PORES AND ENERGY STORAGE DEVICE INCLUDING THE SAME	Chae-Hyun Kim et al
1170		PCT	Jointly-owned (Lotte)	Pending	PCT	WO2010/KR0009441	12/28/2010			SEPARATOR WITH NANO-SCALED PORES AND ENERGY STORAGE DEVICE INCLUDING THE SAME	Chae-Hyun Kim et al
1183	1	United States	A123-owned	Pending	PRO	61/524/32	8/17/2011			Blended Cathode Materials	Sang Young Yoon, Rocco Iocco, Jeong Ju Cho
1183		United States	A123-owned	Pending	PRO	61/511, 280	7/25/2011			Blended Cathode Materials	Sang Young Yoon, Rocco Iocco
1188		United States	A123-owned	Pending	PRO	61/666/8	1/30/2012			Method to connect a Printed Circuit Board Assembly to a battery pack to control voltage power up	Peter A. Firm
1189		United States	A123-owned	Pending	PRO	61/542, 341	10/3/2011			CATHODE MATERIALS INCLUDING AN OXYGEN-GETTERING COMPOUND AND AN ION-STORAGE COMPOUND	Karen Thomas Alyea
1198		United States	A123-owned	Pending	PRO	61/593, 980	2/2/2012			FAST-CHARGE BATTERY WITH REDUCED RATE OF CAPACITY FADE	Karen Thomas Alyea
1199	1	United States	A123-owned	Pending	PRO	61/658/704	6/12/2012			Lithium Ion Cell with Non-Aqueous Electrolyte with a Solvent Including an S—O Bond	Jeong-Ju Cho
1199	2	United States	A123-owned	Pending	PRO	61/658/112	6/12/2012			Microhybrid Battery	Jeong-Ju Cho
1199		United States	A123-owned	Pending	PRO	61/594/058	2/2/2012			Ethylene Sulfonate electrolyte additive	Jeong-Ju Cho
1201		United States	A123-owned	Pending	PRO	61/620/36	4/5/2012			Pneumatic cell comprising multi jelly rolls with the cathode sheet between the jelly rolls	Sang Young Yoon
1202		United States	A123-owned	Pending	PRO	61/649/562	5/21/2012			Multi-Cell Lithium-Ion Battery	William Gardner
1205		United States	A123-owned	Pending	PRO	61/616/668	3/28/2012			ELECTROLYTE ADDITIVE WITH IMPROVED CYCLE LIFE (e.g. Sulfur trioxide pyridine complex)	Jeong-Ju Cho
1207		United States	A123-owned	Pending	PRO	61/596/824	2/8/2012			Battery Pack Including Fluid Resistant Over-Mold	Michael Giacchino
1217		China	A123-owned	Granted	ORD	sn/200510021136, 1	6/17/2005	CN20050021136		Cover Plate Assembly for Lithium Ion Battery	Zhao Junfeng
1218		China	A123-owned	Granted	ORD			CN20060002612		Jig for Cylindrical Lithium Ion Battery	Wu Feichao
1219		China	A123-owned	Granted	ORD	200620002613, X	3/1/2006	CN20060002613		Lithium Ion Battery Pole Piece Protector	Wang Chunguang
1220		China	Jointly-owned (Toyota + T/J Tech)	Granted	ORD	CN101601162A		CN101601162B	12/9/2009	High Performance Anode Material For Lithium-Ion Battery	Pu Zhang et al.
1220		Japan	Jointly-owned (Toyota + T/J Tech)	Pending	ORD	JF201050072312				High Performance Anode Material For Lithium-Ion Battery	Pu Zhang et al.

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1220		Korea	Jointly-owned (Toyota + T/J Tech)	Pending	ORD	2009058517A				High Performance Anode Material For Lithium-Ion Battery	Pu Zhang et al.
1220		Korea	Jointly-owned (Toyota + T/J Tech)	Pending	ORD	2011-112358A				High Performance Anode Material For Lithium-Ion Battery	Pu Zhang et al.
1220		United States	Jointly-owned (Toyota + T/J Tech)	Granted	ORD	463394	8/9/2006	7722991	5/25/2010	High Performance Anode Material For Lithium-Ion Battery	Pu Zhang et al.
1221		Japan	Jointly-owned (Toyota + T/J Tech)	Pending	ORD	2008258143A2	2/7/2008			Tin in an Active Support Matrix	Richard Monique et al.
1221		United States	Jointly-owned (Toyota + T/J Tech)	Granted	ORD	695975	4/3/2007	8039152	10/18/2011	Tin in an Active Support Matrix	Richard Monique et al.
1222		Canada	Licensed (MIT Tech)	Granted	ORD	242156	10/22/2001	242156		Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	1	China	Licensed (MIT)	Granted	ORD	CN 01817679.8	10/4/2006	ZL01817679.8		Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	2	China	Licensed (MIT)	Pending	ORD	10115050.X	8/17/2006			Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222		Europe	Licensed (MIT)	Granted	ORD	1352436	7/19/2010	1352436	8/20/2008	Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222		France	Licensed (MIT)	Granted	ORD	12839155	7/19/2010	1352436	8/20/2008	Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222		Germany	Licensed (MIT)	Granted	ORD	12839155	7/19/2010	60135495.8-08	8/20/2008	Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222		Italy	Licensed (MIT)	Granted	ORD	12839155	7/19/2010	1352436	8/20/2008	Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	1	Japan	Licensed (MIT)	Pending	ORD	2011-156139	11/22/2001			Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222		Japan	Licensed (MIT)	Pending	ORD	2011-173173	10/22/2001			Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	1	Korea	Licensed (MIT)	Granted	ORD			10-0912754	8/11/2009	Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	2	Korea	Licensed (MIT)	Granted	ORD			10-90929452	11/24/2009	Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	4	Korea	Licensed (MIT)	Pending	ORD	10-2010-7024736	10/22/2001			Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	5	Korea	Licensed (MIT)	Pending	ORD	10-2010-7018116	10/22/2001			Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	6	Korea	Licensed (MIT)	Pending	ORD	10-2010-7020519	10/22/2001			Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222		Spain	Licensed (MIT)	Granted	ORD	12839155	7/19/2010	1352436	8/20/2008	Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222		United Kingdom	Licensed (MIT)	Granted	ORD	12839155	7/19/2010	1352436	8/20/2008	Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	1	United States	Licensed (MIT)	Granted	ORD			7553584	6/30/2009	Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	2	United States	Licensed (MIT)	Granted	ORD			7781098	8/24/2010	Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	3	United States	Licensed (MIT)	Pending	ORD	12839155	7/19/2010			Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1222	4	United States	Licensed (MIT)	Pending	ORD	12957000	11/30/2010			Design and Manufacturing Process for Batteries	Yei Ming Chiang et al.
1223		Australia	Licensed (MIT)	Granted	ORD	SN 2007202605	12/23/2002	2007202605		Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223		Canada	Licensed (MIT)	Pending	ORD	2471455	12/23/2002			Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223		China	Licensed (MIT)	Granted	ORD			CN 02827276.5	8/27/2008	Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223	1	Europe	Licensed (MIT)	Pending	ORD	SN 02798597.7	12/23/2002			Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223	2	Europe	Licensed (MIT)	Pending	ORD	SN 10185031.1	12/23/2002			Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223	1	India	Licensed (MIT)	Granted	ORD			239780	3/31/2010	Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223	2	India	Licensed (MIT)	Pending	ORD	4155/KOLNP/2008	12/23/2002			Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223	3	India	Licensed (MIT)	Pending	ORD	4486/KOLNP/2008	12/23/2002			Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223		Japan	Licensed (MIT)	Granted	ORD	2003-557056		4712302		Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223		Korea	Licensed (MIT)	Pending	ORD	10-2010-7004725	3/2/2010			Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223		Korea	Licensed (MIT)	Pending	ORD	2004-7009809	12/23/2002			Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223	1	United States	Licensed (MIT)	Granted	ORD	11/091463	9/17/2007	8148013		Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1223	2	United States	Licensed (MIT)	Granted	ORD	13/404735	2/24/2012	8148013		Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1224		United States	Licensed (MIT)	Granted	ORD			7338734	3/4/2008	Conductive Lithium Storage Electrode	Yei Ming Chiang et al.
1224		Canada	Licensed (LiFePO4 + C)	Granted	ORD		23.04.1997	CA 2,251,709		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Canada	Licensed (LiFePO4 + C)	Granted	ORD		23.04.1997	CA 2,543,784		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough

A123 Case Number	A123 Subcase	Country	Owner	Status	Case type	App. No.	Filing Date	Pat. No.	Pat. Date	App Title	Inventor
1224		Canada	Licensed (LiFePO4 + C)	Granted	ORD		24.12.1997	US 6,514,640 Con		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Europe	Licensed (LiFePO4 + C)	Granted	ORD		23.04.1997	EP 0904607		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Europe	Licensed (LiFePO4 + C)	Granted	ORD		23.04.1997	EP-IT 0904607		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Europe	Licensed (LiFePO4 + C)	Pending	ORD	EP 10186105.2 Div	23.04.1997			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Europe	Licensed (LiFePO4 + C)	Pending	ORD	EP 1501137 Div.	23.04.1997			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Europe	Licensed (LiFePO4 + C)	Pending	ORD	EP 1755182 Div.	23.04.1997			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Europe	Licensed (LiFePO4 + C)	Pending	ORD	EP 1755183 Div.	23.04.1997			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Europe	Licensed (LiFePO4 + C)	Pending	ORD	EP 2282368 Div.	23.04.1997			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		France	Licensed (LiFePO4 + C)	Granted	ORD		23.04.1997	EP-DE 69731382		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Italy	Licensed (LiFePO4 + C)	Granted	ORD		23.04.1997	EP-GB 0904607		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Japan	Licensed (LiFePO4 + C)	Granted	ORD	JP 2000-509193	4/23/1997	JP 4395935		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Japan	Licensed (LiFePO4 + C)	Pending	ORD	JP 2007-214147 Div	14.05.2007			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Japan	Licensed (LiFePO4 + C)	Pending	ORD	JP 2007-294463 Div	14.05.2007			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Japan	Licensed (LiFePO4 + C)	Pending	ORD	JP 2009-110967 Div	17.12.2008			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		Japan	Licensed (LiFePO4 + C)	Pending	ORD	JP 2010-056097 Div	07.12.2009			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United Kingdom	Licensed (LiFePO4 + C)	Granted	ORD		23.04.1997	EP-FF 0904607		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Granted	ORD		21.04.1997	US 5,910,382		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Granted	ORD		23.04.1999	US 6,391,493 Div		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Granted	ORD		20.08.2010	US 7,955,733 Con		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Granted	ORD		20.08.2010	US 7,964,308 Con		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Granted	ORD		20.08.2010	US 7,972,728 Con		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Granted	ORD		08.09.2010	US 7960056 Con		Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 12952978	23.11.2010			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20030082454 Con	02.12.2002			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20050003274 Con	30.07.2004			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20050244321 Con	13.07.2005			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20070117019 Con	29.12.2006			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20070166618 Con	29.12.2006			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20070281215 Con	03.08.2007			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough



A123 Case Number	A123 Subcase	Country	Owner	Status	Casetype	App. No.	Filing Date	Pat. No.	Pat. Date	Apptitle	Inventor
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20100310935 Con	20.08.2010			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20100314577 Con	20.08.2010			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20100314589 Con	20.08.2010			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20100316909 Con	20.08.2010			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20110006256 Con	08.09.2010			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20110006270 Con	08.09.2010			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20110017959 Con	08.09.2010			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 20110039158 Con	20.08.2010			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1224		United States	Licensed (LiFePO4 + C)	Pending	ORD	US20110068297	11/23/2010			Cathode materials for secondary (rechargeable) lithium batteries	John Goodenough
1225		Japan	Licensed (LiFePO4 + C)	Granted	ORD		JP 2001085010	3503195		LITHIUM SECONDARY BATTERY	<NTI>
1226		Japan	Licensed (LiFePO4 + C)	Granted	ORD		JP 09134724	3523397		NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY.	<NTI>
1227		Japan	Licensed (LiFePO4 + C)	Granted	ORD		JP 09134725	3484003		NON-AQUEOUS ELECTROLYTE SECONDARY BATTERY.	<NTI>
1228		Japan	Licensed (LiFePO4 + C)	Granted	ORD		JP 2004178635	4153288		NONAQUEOUS ELECTROLYTE SECONDARY BATTERY.	<NTI>
1229		Canada	Licensed (LiFePO4 + C)	Granted	ORD		30.04.1999	CA 2,270,771		Electrode materials with high surface conductivity	<HO>
1229		Canada	Licensed (LiFePO4 + C)	Granted	ORD		28.04.2000	CA 2,307,119		Electrode materials with high surface conductivity	<HO>
1229		Canada	Licensed (LiFePO4 + C)	Granted	ORD		28.04.2000	CA 2,625,896		Electrode materials with high surface conductivity	<HO>
1229		Canada	Licensed (LiFePO4 + C)	Granted	ORD		28.04.2000	CA 2,658,728		Electrode materials with high surface conductivity	<HO>
1229		Canada	Licensed (LiFePO4 + C)	Granted	ORD		28.04.2000	CA 2,658,741		Electrode materials with high surface conductivity	<HO>
1229		Canada	Licensed (LiFePO4 + C)	Granted	ORD		28.04.2000	CA 2,658,748		Electrode materials with high surface conductivity	<HO>
1229		Europe	Licensed (LiFePO4 + C)	Granted	ORD	EP 1049182	02.05.2000	EP 1049182		Electrode materials with high surface conductivity	<HO>
1229		Europe	Licensed (LiFePO4 + C)	Granted	ORD	EP 1796189 Div	02.05.2000	EP 1796189 Div		Electrode materials with high surface conductivity	<HO>
1229		Europe	Licensed (LiFePO4 + C)	Pending	ORD	EP 20070025160	02.05.2000			Electrode materials with high surface conductivity	<HO>
1229		France	Licensed (LiFePO4 + C)	Granted	ORD	EP FR 1049182	02.05.2000	EP FR 1049182		Electrode materials with high surface conductivity	<HO>
1229		France	Licensed (LiFePO4 + C)	Granted	ORD	EP FR 1796189	02.05.2000	EP FR 1796189		Electrode materials with high surface conductivity	<HO>
1229		Germany	Licensed (LiFePO4 + C)	Granted	ORD	EP DE 60037609	02.05.2000	EP DE 60037609		Electrode materials with high surface conductivity	<HO>
1229		Germany	Licensed (LiFePO4 + C)	Granted	ORD	EP DE 60041896	02.05.2000	EP DE 60041896		Electrode materials with high surface conductivity	<HO>
1229		Italy	Licensed (LiFePO4 + C)	Granted	ORD	EP IT 1049182	02.05.2000	EP IT 1049182		Electrode materials with high surface conductivity	<HO>
1229		Italy	Licensed (LiFePO4 + C)	Granted	ORD	EP IT 1796189	02.05.2000	EP IT 1796189		Electrode materials with high surface conductivity	<HO>
1229		Japan	Licensed (LiFePO4 + C)	Pending	ORD	JP 2001015111	01.05.2000			Electrode materials with high surface conductivity	<HO>

A123 Case Number	A123 Subcase	Country	Owner	Status	Case type	App. No.	Filing Date	Pat. No.	Pat. Date	App Title	Inventor
1229		Japan	Licensed (LiFePO4 + C)	Pending	ORD	JP 2008186807 Div	22.02.2008			Electrode materials with high surface conductivity	<HO>
1229		United Kingdom	Licensed (LiFePO4 + C)	Granted	ORD	EP GB 1049182	02.05.2000	EP GB 1049182		Electrode materials with high surface conductivity	<HO>
1229		United Kingdom	Licensed (LiFePO4 + C)	Granted	ORD	EP GB 1796189	02.05.2000	EP GB 1796189		Electrode materials with high surface conductivity	<HO>
1229		United States	Licensed (LiFePO4 + C)	Granted	ORD	US 20020195591 Con	21.06.2002	6855273		Electrode materials with high surface conductivity	<HO>
1229		United States	Licensed (LiFePO4 + C)	Granted	ORD	US 20040140458 Div	22.12.2003	6962666		Electrode materials with high surface conductivity	<HO>
1229		United States	Licensed (LiFePO4 + C)	Granted	ORD	US 20060060827 Con	04.11.2005	7344659		Electrode materials with high surface conductivity	<HO>
1229		United States	Licensed (LiFePO4 + C)	Granted	ORD	US 20080257721 Div	19.02.2008	7815819		Electrode materials with high surface conductivity	<HO>
1229		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 12899067	06.10.2010			Electrode materials with high surface conductivity	<HO>
1229		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 12961335	22.11.2010			Electrode materials with high surface conductivity	<HO>
1230		Canada	Licensed (LiFePO4 + C)	Granted	ORD		26.09.2000	CA 2320661		Method for synthesis of carbon-coated complex oxide with control size	<HO>
1230		Canada	Licensed (LiFePO4 + C)	Granted	ORD		21.09.2001	CA 2422446		Method for synthesis of carbon-coated complex oxide with control size	<HO>
1230		China	Licensed (LiFePO4 + C)	Granted	ORD	CN 1478310	21.09.2001	CN 100421289		Method for synthesis of carbon-coated complex oxide with control size	<HO>
1230		Europe	Licensed (LiFePO4 + C)	Pending	ORD	EP 1325555	21.09.2001			Method for synthesis of carbon-coated complex oxide with control size	<HO>
1230		Europe	Licensed (LiFePO4 + C)	Pending	ORD	EP 20100180996 Div.	21.09.2001			Method for synthesis of carbon-coated complex oxide with control size	<HO>
1230		Japan	Licensed (LiFePO4 + C)	Pending	ORD	JP 2004509447	21.09.2001			Method for synthesis of carbon-coated complex oxide with control size	<HO>
1230		Korea	Licensed (LiFePO4 + C)	Granted	ORD	KR 200300045791	28.02.2003	KR 100879839		Method for synthesis of carbon-coated complex oxide with control size	<HO>
1230		United States	Licensed (LiFePO4 + C)	Granted	ORD	US20040033360	21.09.2001	7601318		Method for synthesis of carbon-coated complex oxide with control size	<HO>
1230		PCT	Licensed (LiFePO4 + C)	Pending	ORD	CN 101453020	21.09.2001			Method for synthesis of carbon-coated complex oxide with control size	<HO>
1230		PCT	Licensed (LiFePO4 + C)	Pending	ORD	WO 02/027823	21.09.2001			Method for synthesis of carbon-coated complex oxide with control size	<HO>
1230		PCT	Licensed (LiFePO4 + C)	Pending	ORD	WO 02/027824	21.09.2001			Method for synthesis of carbon-coated complex oxide with control size	<HO>
1230		United States	Licensed (LiFePO4 + C)	Pending	ORD	US 2010065787 Con	11.09.2009			Method for synthesis of carbon-coated complex oxide with control size	<HO>
1231		Canada	Licensed (LiFePO4 + C)	Granted	ORD		26.09.2000	CA 2320661		Synthesis method for carbon material based on LxM1-yM1(XO4)n	<HO>
1231		Canada	Licensed (LiFePO4 + C)	Granted	ORD		21.09.2001	CA 2423129		Synthesis method for carbon material based on LxM1-yM1(XO4)n	<HO>
1231		Europe	Licensed (LiFePO4 + C)	Pending	ORD	EP 1326526	21.09.2001			Synthesis method for carbon material based on LxM1-yM1(XO4)n	<HO>
1231		Japan	Licensed (LiFePO4 + C)	Pending	ORD	JP 2004509058	21.09.2001			Synthesis method for carbon material based on LxM1-yM1(XO4)n	<HO>
1231		United States	Licensed (LiFePO4 + C)	Granted	ORD	US 20040086445	21.09.2001	7285260		Synthesis method for carbon material based on LxM1-yM1(XO4)n	<HO>
1231		United States	Licensed (LiFePO4 + C)	Granted	ORD	US 20070134554 Con	19.01.2007	7457018		Synthesis method for carbon material based on LxM1-yM1(XO4)n	<HO>
1234		United States	A123-owned	Pending	ORD	13556.816	7/24/2012			Method to weld conductors to cell terminals	Michael Hoff, Louis Perry, Eric Baehlell