

TRADEMARK ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Plextronics, Inc.		09/20/2013	CORPORATION: DELAWARE

RECEIVING PARTY DATA	
Name:	Solvay America, Inc.
Street Address:	3333 Richmond Avenue
City:	Houston
State/Country:	TEXAS
Postal Code:	77098
Entity Type:	CORPORATION: DELAWARE

PROPERTY NUMBERS Total: 3		
Property Type	Number	Word Mark
Registration Number:	3948114	PLEXTRONICS LIGHT. POWER. CIRCUITRY.
Registration Number:	3004841	PLEXCORE
Registration Number:	2902063	PLEXTRONICS

CORRESPONDENCE DATA	
Fax Number:	3127069125
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	312-701-8623
Email:	rassmus@mayerbrown.com
Correspondent Name:	Richard M. Assmus
Address Line 1:	71 South Wacker Drive
Address Line 2:	Mayer Brown LLP
Address Line 4:	Chicago, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	10437752
NAME OF SUBMITTER:	Richard M. Assmus

CH \$90.00 3948114

Signature:	/rma/
Date:	09/23/2013

Total Attachments: 40

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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT (as amended, amended and restated, supplemented or otherwise modified from time to time, the “*IP Security Agreement*”) dated September 20, 2013 is made by PLEXTRONICS, INC., a Delaware corporation (the “*Grantor*”), in favor of SOLVAY AMERICA, INC., a Delaware corporation (“*Solvay*”), as collateral agent (in such capacity, the “*Collateral Agent*”) for itself and the other investors set forth on **Schedule A** to the Security Agreement (as defined below) (collectively with Solvay, the “**Lenders**”). Capitalized terms used herein and not otherwise defined herein shall have the meanings assigned to such terms in **Exhibit A** attached hereto or the Security Agreement, as applicable.

WHEREAS, pursuant to the Security Agreement dated as of September 20, 2013 (as amended, restated, amended and restated, supplemented, waived or otherwise modified or replaced from time to time, the “*Security Agreement*”), by and between the Grantor and the Collateral Agent, the Grantor has granted to the Collateral Agent for the benefit of the Lenders a first priority security interest to support certain obligations of the Grantor owed to the Lenders under the terms of the convertible notes issued to each Lender in accordance with the terms of that certain Convertible Note and Warrant Purchase Agreement dated as of September 20, 2013 (as amended, restated, amended and restated, supplemented, waived or otherwise modified or replaced from time to time, the “*Purchase Agreement*”).

WHEREAS, the Grantor, the Collateral Agent and the Lenders are parties to that certain Third Amended and Restated Intercreditor Agreement dated as of September 20, 2013 (as amended, restated, amended and restated, supplemented, waived or otherwise modified from time to time, the “*Intercreditor Agreement*”), which sets forth the relative rights and obligations of the Collateral Agent and the various Lenders as it relates to the Collateral.

WHEREAS, pursuant to the terms and conditions set forth in the Security Agreement, the Grantor has granted to the Collateral Agent a security interest in all personal property of the Grantor, including all Intellectual Property of the Grantor as hereinafter defined, including without limitation, all Trademarks, Patents, Copyrights, Trade Secrets and IP Agreements as hereinafter defined, all to secure the payment and performance of the Obligations (as defined in the Security Agreement).

WHEREAS, in order to evidence such security interest and to perfect the Collateral Agent’s rights in such Intellectual Property, the Grantor has agreed to execute this IP Security Agreement for recording with the U.S. Patent and Trademark Office, the United States Copyright Office and other governmental authorities and agrees to execute any additional documents as necessary to record such security interest with the U.S. Patent and Trademark Office, the U.S. Copyright Office or such other governmental authorities.

NOW, THEREFORE, for and in consideration of the premises, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor agrees as follows:

SECTION 1. Grant of Security. The Grantor hereby grants to the Collateral Agent, on behalf of the Lenders, a security interest in all of such Grantor’s right, title and interest, whether now owned or existing or hereafter created, acquired or arising, in and to the following (the “*IP Collateral*”):

(a) all Patents, in each case now existing or hereafter adopted or acquired, including those set forth in **Schedule B** hereto;

(b) all Trademarks, in each case now existing or hereafter adopted or acquired, including those set forth in **Schedule B** hereto; and

(c) all Copyrights, in each case now existing or hereafter adopted or acquired, including those set forth in **Schedule B** hereto.

SECTION 2. Recordation. This IP Security Agreement has been executed and delivered by the Grantor for the purpose of recording the grant of security interest herein with the United States Patent and Trademark Office and the United States Copyright Office, or other governmental agency. The Grantor authorizes and requests that the Register of Copyrights, the Commissioner for Patents and the Commissioner for Trademarks record this IP Security Agreement.

SECTION 3. Representations, Warranties And Covenants. The Grantor represents, warrants and covenants that, except as otherwise set forth herein, in the Security Agreement or disclosure schedules incorporated into the Purchase Agreement: (i) **Schedule B** sets forth a true and complete list of all Patent, Trademark and Copyright registrations and pending applications now owned or, as indicated, co-owned by the Grantor; (ii) the Intellectual Property, including such Patent, Trademark and Copyright applications and registrations set forth on **Schedule B**, are subsisting and have not been adjudged invalid or unenforceable, in whole or in part, and there is no litigation or proceeding pending concerning the validity or enforceability of the Intellectual Property or the Grantor's ownership rights therein; (iii) to the best of the Grantor's knowledge, each of the Intellectual Property and IP Agreements is valid and enforceable; (iv) to the best of the Grantor's knowledge, there is no infringement by a third party of the Intellectual Property; (v) no claim has been provided or made known to the Grantor that the use of any of the Intellectual Property does or may violate the rights of any third person, and to the best of the Grantor's knowledge, there is no infringement by the Grantor of the intellectual property rights of others; (vi) subject to the co-owned Intellectual Property as indicated on **Schedule B**, the Grantor is the sole and exclusive owner of the entire and unencumbered right, title and interest in and to each of the Intellectual Property free and clear of any liens, charges, encumbrances and adverse claims, including pledges, assignments, licenses, registered user agreements and covenants by the Grantor not to sue third persons, other than (A) the security interest and assignment created by the Security Agreement and this IP Security Agreement, (B) the security interests granted to the Junior Creditors, as set forth in the Intercreditor Agreement, or (C) licenses, sub-licenses or end-user agreements as set forth on Schedule 3.13(f) of the disclosure schedules to the Purchase Agreement; (vii) the Grantor has the unqualified right to enter into this IP Security Agreement and to perform its terms and will take all steps that may be reasonably necessary so as to ensure that the Grantor shall continue to comply with the covenants herein contained; (viii) the Grantor has used its best efforts to, and will continue to use its best efforts in the future to use, proper statutory and other proprietary notices in connection with its use of the Patents, Trademarks or Copyrights; and (ix) the Grantor has used its best efforts to, and will continue to use its best efforts to use for the duration of this IP Security Agreement, consistent standards of quality in its manufacture and provision of products and services sold or provided under the Trademarks.

SECTION 4. No Transfer Or Inconsistent Agreements. Without the Collateral Agent's prior written consent, the Grantor will not (i) sell, transfer, assign, pledge, encumber, or grant any license or sublicense of any rights under or with respect to any of its Intellectual Property owned or co-owned by it except in the ordinary course of business, or (ii) enter into any agreement that is inconsistent with the Grantor's obligations under this IP Security Agreement or the Security Agreement.

SECTION 5. After-Acquired Intellectual Property.

5.1 After-Acquired Intellectual Property. If, before the Obligations shall have been finally paid and satisfied in full and the commitments of the Lenders to make advances under the Purchase Agreement have been terminated, the Grantor obtains any right, title or interest in or to any other or new Intellectual Property, the provisions of this IP Security Agreement shall automatically apply thereto and the Grantor shall promptly provide to the Collateral Agent notice thereof in writing and execute and deliver to the Collateral Agent such documents or instruments as the Collateral Agent may reasonably request further to implement, preserve or evidence the Collateral Agent's' interest therein.

5.2 Amendment to Schedule. The Grantor authorizes the Collateral Agent to modify this IP Security Agreement, without the necessity of the Grantor's further approval or signature, solely so as to amend **Schedule B** hereto to include any future or other Patent, Trademark or Copyright registrations or applications.

SECTION 6. Execution in Counterparts. This IP Security Agreement may be executed in any number of 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.

SECTION 7. Grants, Rights and Remedies. This IP Security Agreement has been entered into in conjunction with the provisions of the Security Agreement and the Intercreditor Agreement. The Grantor does hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and remedies of, the Collateral Agent with respect to the Collateral are more fully set forth in the Security Agreement and the Intercreditor Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein.

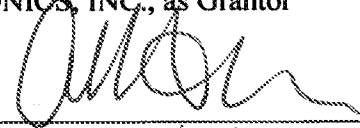
SECTION 8. Governing Law. THIS IP SECURITY AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS IP SECURITY AGREEMENT AND ALL CLAIMS RELATING TO THE SUBJECT MATTER HEREOF, WHETHER SOUNDING IN CONTRACT LAW OR TORT LAW, SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAWS OF THE STATE OF DELAWARE.

SECTION 9. Severability. In case any one or more of the provisions contained in this IP Security Agreement should be held invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions contained herein shall not in any way be affected or impaired thereby (it being understood that the invalidity of a particular provision in a particular jurisdiction shall not in and of itself affect the validity of such provision in any other jurisdiction). The parties hereto shall endeavor in good-faith negotiations to replace the invalid, illegal or unenforceable provisions with valid provisions the economic effect of which comes as close as possible to that of the invalid, illegal or unenforceable provisions.

* Remainder of Page Intentionally Blank *

IN WITNESS WHEREOF, the Grantor has caused this IP Security Agreement to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

PLEXTRONICS, INC., as Grantor

By: 

Name: Andrew W. Hannah

Title: President and Chief Executive Officer

Accepted and Agreed to:

SOLVAY AMERICA, INC., as Collateral Agent

MC

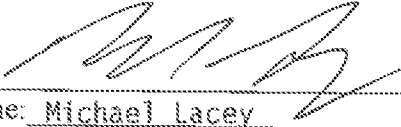
By: 
Name: Michael Lacey
Title: President

Exhibit A
Additional Definitions

“**Copyrights**” means all of the following: (a) all copyright rights in any work subject to the copyright laws of the United States or any other country or group of countries, whether as author, assignee, transferee or otherwise including but not limited to copyrights in software and all rights in and to databases, all designs (including but not limited to industrial designs, Protected Designs within the meaning of 17 U.S.C. §1301 et. seq. and European Community designs), and all Mask Works (as defined under 17 U.S.C. §901 of the U.S. Copyright Act), whether registered or unregistered, and (b) all registrations and applications for registration of any such copyright in the United States or any other country or group of countries, including registrations, supplemental registrations and pending applications for registration in the United States Copyright Office listed on **Schedule B** and (c) all proceeds of and the right to sue or otherwise recover for any past, present and future infringement or other violation thereof, or enforcement of any Copyright.

“**General Intangibles**” means all “General Intangibles” as defined in the UCC, including all choses in action and causes of action and all other intangible personal property of the Grantor of every kind and nature (other than accounts (as defined in the UCC)) now owned or hereafter acquired by the Grantor, including corporate or other business records, indemnification claims, contract rights (including rights under leases, whether entered into as lessor or lessee, and other agreements), Intellectual Property, goodwill, registrations, franchises and tax refund claims.

“**Intellectual Property**” means all Patents, Copyrights, Trademarks, Trade Secrets, domain names, and all inventions, designs, confidential or proprietary technical and business information, know-how, show-how and other proprietary data or information and all related documentation.

“**IP Agreements**” means all agreements granting to or receiving from a third party any rights to Intellectual Property to which the Grantor, now or hereafter, is a party.

“**Patents**” means all of the following: (a) all letters patent of the United States or the equivalent thereof in any other country or group of countries, and all applications for letters patent of the United States or the equivalent thereof in any other country or group of countries, including those listed on **Schedule B**, (b) all reissues, continuations, divisions, provisionals, continuations-in-part or extensions thereof, and the inventions disclosed or claimed therein, including the right to make, use and/or sell the inventions disclosed or claimed therein and (c) all proceeds of and the right to sue or otherwise recover for any past, present and future infringement or other violation thereof, or for enforcement of any Patent.

“**Trademarks**” means all of the following: (a) all domestic and foreign trademarks, trade names, service marks, corporate names, company names, business names, fictitious business names, trade styles, trade dress, logos, service marks, other source or business identifiers, designs and General Intangibles of like nature, now owned or hereafter adopted or acquired, all registrations thereof, if any, including all registration and recording applications filed in connection therewith in the United States Patent and Trademark Office listed on **Schedule B** and all renewals thereof, including those listed on **Schedule B** (provided that no security interest

shall be granted in United States intent-to-use trademark applications to the extent that, and solely during the period, if any, in which, the grant of a security interest therein would impair the validity or enforceability of such intent-to-use trademark applications under applicable federal law), (b) all goodwill associated therewith or symbolized thereby and (c) all proceeds of, and the right to sue or otherwise recover for any past, present and future infringement, dilution or other violation of any of the foregoing or for any injury to the related goodwill associated with the use of any Trademark or for enforcement of any Trademark.

“Trade Secrets” means common law and statutory trade secrets and all other confidential or proprietary or useful information and all know-how obtained by or used in or contemplated at any time for use in the business of the Grantor (all of the foregoing being collectively called a **“Trade Secret”**), whether or not such Trade Secret has been reduced to a writing or other tangible form, including all documents and things embodying, incorporating or referring in any way to such Trade Secret, all Trade Secret licenses, and including the right to sue for and to enjoin and to collect damages for the actual or threatened misappropriation of any Trade Secret and for the breach or enforcement of any such Trade Secret license.

[End of Exhibit A]

Schedule A
Lenders

Solvay America, Inc.
Newlin Investments, L.P.

Schedule B
Intellectual Property

Patents

See attached PDF

Trademarks

Country	Mark	Reg. No.	Reg. Date	Status	Next Action Due
China	PLEXCORE	Pending; Application No. 12599864	Pending	Filed	Awaiting Trademark Office Review
EU	PLEXTRONICS	008231458	11/22/2009	Registered	Renewal – 04/21/2019
Japan	PLEXTRONICS	5411900	05/13/2011	Registered	2 nd Payment of Registration Fee 05/13/2016
Japan	PLEXCORE	Pending; Application No. 2013- 38158	Pending	Filed	Awaiting Trademark Office Review
South Korea	PLEXTRONICS	40/880575	9/15/2011	Registered	Renewal 09/15/2021
South Korea	PLEXCORE	Pending; Application No. 40-2013- 32960	Pending	Filed	Awaiting Trademark Office Review
United States	PLEXTRONICS LIGHT. POWER. CIRCUITRY	3,948,114	04/19/2011	Registered	Declaration of Use 04/19/2017
United States	PLEXCORE	3,004,841	10/04/2005	Registered	Renewal 10/04/2015
United States	PLEXTRONICS	2,902,063	11/09/2004	Registered	Renewal 11/09/2014
EU	PLEXCORE	Pending; Application No. 012151056	Pending	Under Examination	
Taiwan	PLEXCORE	Pending; Application No. 102026816	Pending	Pending	

Copyrights

Registered Copyrights

None.

Copyright Application

None.

TITLE	ABSTRACT	INVENTORS	DOC#	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	Published Patent Application	PATENT NUMBER and Link to patent pdf	GRANT DATE	STATUS	OWNER
POLYTHIOPHENES, BLOCK COPOLYMERS MADE THEREFROM, AND METHODS OF FORMING THE SAME	The present invention relates to polythiophenes, particularly regioregular head-to-tail poly(5-alkylthiophenes) (HT-PATs), block copolymers made therefrom, and their methods of formation. The present invention provides HT-PATs with well-defined, specific end-groups, functionalization of the defined HT-PATs, and intrinsically conductive diblock and triblock copolymers, formed from the HT-PATs, having excellent conductivity and low polydispersities that are useful in a number of applications. The block copolymers of the present invention have been found to exhibit conductivities that range from a low of 10 sup-8 S/cm for certain applications to as high as several hundred S/cm or more.	Richard D. McCullough, Jameson L. Paul C, Ewbank, E. E. Steina	PLA/2000/200	United States of America	1004782	4-Dec-01		560292	5-Aug-03	Closed	Carnegie Mellon University
POLYTHIOPHENES, BLOCK COPOLYMERS MADE THEREFROM, AND METHODS OF FORMING THE SAME	The present invention relates to polythiophenes, particularly regioregular head-to-tail poly(5-alkylthiophenes) (HT-PATs), block copolymers made therefrom, and their methods of formation. The present invention provides HT-PATs with well-defined, specific end-groups, functionalization of the defined HT-PATs, and intrinsically conductive diblock and triblock copolymers, formed from the HT-PATs, having excellent conductivity and low polydispersities that are useful in a number of applications. The block copolymers of the present invention have been found to exhibit conductivities that range from a low of 10 sup-8 S/cm for certain applications to as high as several hundred S/cm or more.	Richard D. McCullough, Jameson L. Paul C, Ewbank, E. E. Steina	PLA/2000/210	United States of America	1108541	24-Mar-05		827256	24-Jul-12	Issued	Carnegie Mellon University
POLYTHIOPHENES, BLOCK COPOLYMERS MADE THEREFROM, AND METHODS OF FORMING THE SAME	The present invention relates to polythiophenes, particularly regioregular head-to-tail poly(5-alkylthiophenes) (HT-PATs), block copolymers made therefrom, and their methods of formation. The present invention provides HT-PATs with well-defined, specific end-groups, functionalization of the defined HT-PATs, and intrinsically conductive diblock and triblock copolymers, formed from the HT-PATs, having excellent conductivity and low polydispersities that are useful in a number of applications. The block copolymers of the present invention have been found to exhibit conductivities that range from a low of 10 sup-8 S/cm for certain applications to as high as several hundred S/cm or more.	Richard D. McCullough, Jameson L. Paul C, Ewbank, E. E. Steina	PLA/2000/300	United States of America	1041724	16-Apr-03		Z99294	29-Aug-06	Issued	Carnegie Mellon University
POLYTHIOPHENES, BLOCK COPOLYMERS MADE THEREFROM, AND METHODS OF FORMING THE SAME	The present invention relates to polythiophenes, particularly regioregular head-to-tail poly(5-alkylthiophenes) (HT-PATs), block copolymers made therefrom, and their methods of formation. The present invention provides HT-PATs with well-defined, specific end-groups, functionalization of the defined HT-PATs, and intrinsically conductive diblock and triblock copolymers, formed from the HT-PATs, having excellent conductivity and low polydispersities that are useful in a number of applications. The block copolymers of the present invention have been found to exhibit conductivities that range from a low of 10 sup-8 S/cm for certain applications to as high as several hundred S/cm or more.	Richard D. McCullough, Jameson L. Paul C, Ewbank, E. E. Steina	PLA/2000/310	United States of America	1063405	4-Aug-03		585295	3-Aug-05	Closed	Carnegie Mellon University
POLYTHIOPHENES, BLOCK COPOLYMERS MADE THEREFROM, AND METHODS OF FORMING THE SAME (Issue of US 6,682,794)	The present invention relates to polythiophenes, particularly regioregular head-to-tail poly(5-alkylthiophenes) (HT-PATs), block copolymers made therefrom, and their methods of formation. The present invention provides HT-PATs with well-defined, specific end-groups, functionalization of the defined HT-PATs, and intrinsically conductive diblock and triblock copolymers, formed from the HT-PATs, having excellent conductivity and low polydispersities that are useful in a number of applications. The block copolymers of the present invention have been found to exhibit conductivities that range from a low of 10 sup-8 S/cm for certain applications to as high as several hundred S/cm or more.	Richard D. McCullough, Jameson L. Paul C, Ewbank, E. E. Steina	PLA/2000/450	United States of America	1119727	4-Aug-05		848813	30-Jan-09	Issued	Carnegie Mellon University
POLYTHIOPHENES, BLOCK COPOLYMERS MADE THEREFROM, AND METHODS OF FORMING THE SAME (Issue of US 6,681,265)	The present invention relates to polythiophenes, particularly regioregular head-to-tail poly(5-alkylthiophenes) (HT-PATs), block copolymers made therefrom, and their methods of formation. The present invention provides HT-PATs with well-defined, specific end-groups, functionalization of the defined HT-PATs, and intrinsically conductive diblock and triblock copolymers, formed from the HT-PATs, having excellent conductivity and low polydispersities that are useful in a number of applications. The block copolymers of the present invention have been found to exhibit conductivities that range from a low of 10 sup-8 S/cm for certain applications to as high as several hundred S/cm or more.	Richard D. McCullough, Jameson L. Paul C, Ewbank, E. E. Steina	PLA/2000/460	United States of America	1199760	2-May-07		841352	24-Aug-10	Issued	Carnegie Mellon University
A METHOD OF FORMING POLY-3-(SUBSTITUTED) THIOPHENES	A method of forming a regioregular polythiophene from a polymerization reaction is described. The method proceeds by combining a soluble thiophene having at least two leaving groups with an organometallic reagent to form a regiochemical isomer intermediate, and adding thereto an effective amount of NiCl2 catalyst to initiate the polymerization reaction.	Richard D. McCullough, Robert S. Loeve	PLA/2001/200	United States of America	9247420	10-Feb-09		516512	26-Dec-10	Issued	Carnegie Mellon University
A METHOD OF FORMING POLY-3-(SUBSTITUTED) THIOPHENES	A method of forming a regioregular polythiophene from a polymerization reaction is described. The method proceeds by combining a soluble thiophene having at least two leaving groups with an organometallic reagent to form a regiochemical isomer intermediate, and adding thereto an effective amount of NiCl2 catalyst to initiate the polymerization reaction.	Richard D. McCullough, Robert S. Loeve	PLA/2001/360	Japan	2006001330	9-Feb-09		4166918	8-Aug-08	Issued	Carnegie Mellon University
A METHOD OF FORMING POLY-3-(SUBSTITUTED) THIOPHENES	A method of forming a regioregular polythiophene from a polymerization reaction is described. The method proceeds by combining a soluble thiophene having at least two leaving groups with an organometallic reagent to form a regiochemical isomer intermediate, and adding thereto an effective amount of NiCl2 catalyst to initiate the polymerization reaction.	Richard D. McCullough, Robert S. Loeve	PLA/2001/461	Japan	200752941	9-Feb-09				Pending	Carnegie Mellon University
A METHOD OF FORMING POLY-3-(SUBSTITUTED) THIOPHENES	A method of forming a regioregular polythiophene from a polymerization reaction is described. The method proceeds by combining a soluble thiophene having at least two leaving groups with an organometallic reagent to form a regiochemical isomer intermediate, and adding thereto an effective amount of NiCl2 catalyst to initiate the polymerization reaction.	Richard D. McCullough, Robert S. Loeve	PLA/2001/760	European Patent Office	1027143	9-Feb-09		EP 1028136	24-May-06	Issued	Carnegie Mellon University
A METHOD OF FORMING POLY-3-(SUBSTITUTED) THIOPHENES	A method of forming a regioregular polythiophene from a polymerization reaction is described. The method proceeds by combining a soluble thiophene having at least two leaving groups with an organometallic reagent to form a regiochemical isomer intermediate, and adding thereto an effective amount of NiCl2 catalyst to initiate the polymerization reaction.	Richard D. McCullough, Robert S. Loeve	PLA/2001/790	France	1027143	9-Feb-09		EP 1028136	24-May-06	Issued	Carnegie Mellon University
A METHOD OF FORMING POLY-3-(SUBSTITUTED) THIOPHENES	A method of forming a regioregular polythiophene from a polymerization reaction is described. The method proceeds by combining a soluble thiophene having at least two leaving groups with an organometallic reagent to form a regiochemical isomer intermediate, and adding thereto an effective amount of NiCl2 catalyst to initiate the polymerization reaction.	Richard D. McCullough, Robert S. Loeve	PLA/2001/760	Germany	60028103508	9-Feb-09		EP-1028136	24-May-06	Issued	Carnegie Mellon University
A METHOD OF FORMING POLY-3-(SUBSTITUTED) THIOPHENES	A method of forming a regioregular polythiophene from a polymerization reaction is described. The method proceeds by combining a soluble thiophene having at least two leaving groups with an organometallic reagent to form a regiochemical isomer intermediate, and adding thereto an effective amount of NiCl2 catalyst to initiate the polymerization reaction.	Richard D. McCullough, Robert S. Loeve	PLA/2001/770	United Kingdom	1027143	9-Feb-09		EP 1028136	24-May-06	Issued	Carnegie Mellon University

A METHOD OF FORMING POLY(3-SUBSTITUTED THIOPHENES)	Richard D. McCullough, Robert S. Levee	PLA/2001/1780	Italy	1027143	9-Feb-00	610 28 1035 5408	24-Apr-06	Issued	Carnegie Mellon University
A METHOD OF FORMING POLY(3-SUBSTITUTED THIOPHENES)	Richard D. McCullough, Robert S. Levee	PLA/2001/1790	Netherlands	1027143	9-Feb-00	EP 1028136	24-Apr-06	Issued	Carnegie Mellon University
LIVING SYNTHESIS OF CONDUCTING POLYMERS INCLUDING REGIOREGULAR POLYMERS, POLYTHIOPHENES, AND BLOCK COPOLYMERS	Richard D. McCullough, Elaine E. Shima, Mihaila C. Iovu	PLA/2002/110	United States of America	6667065	1-Apr-05			Expired	Carnegie Mellon University
LIVING SYNTHESIS OF CONDUCTING POLYMERS INCLUDING REGIOREGULAR POLYMERS, POLYTHIOPHENES, AND BLOCK COPOLYMERS	Richard D. McCullough, Elaine E. Shima, Mihaila C. Iovu	PLA/2002/200	United States of America	11394202	31-Mar-06	2952256	16-Nov-08	Issued	Carnegie Mellon University
LIVING SYNTHESIS OF CONDUCTING POLYMERS INCLUDING REGIOREGULAR POLYMERS, POLYTHIOPHENES, AND BLOCK COPOLYMERS	Richard D. McCullough, Elaine E. Shima, Mihaila C. Iovu	PLA/2002/200	United States of America	12260517	13-Oct-08	2952256	16-Nov-10	Issued	Carnegie Mellon University
LIVING SYNTHESIS OF CONDUCTING POLYMERS INCLUDING REGIOREGULAR POLYMERS, POLYTHIOPHENES, AND BLOCK COPOLYMERS	Richard D. McCullough, Elaine E. Shima, Mihaila C. Iovu	PLA/2002/500	PCT	PCTUS2002/011840	31-Mar-06			Expired	Carnegie Mellon University
LIVING SYNTHESIS OF CONDUCTING POLYMERS INCLUDING REGIOREGULAR POLYMERS, POLYTHIOPHENES, AND BLOCK COPOLYMERS	Richard D. McCullough, Elaine E. Shima, Mihaila C. Iovu	PLA/2002/550	Republic of Korea	102007025253	31-Mar-06	1275449	01-02-2013	Issued	Carnegie Mellon University
LIVING SYNTHESIS OF CONDUCTING POLYMERS INCLUDING REGIOREGULAR POLYMERS, POLYTHIOPHENES, AND BLOCK COPOLYMERS	Richard D. McCullough, Elaine E. Shima, Mihaila C. Iovu	PLA/2002/560	Japan	2008564411	31-Mar-06			Pending	Carnegie Mellon University
LIVING SYNTHESIS OF CONDUCTING POLYMERS INCLUDING REGIOREGULAR POLYMERS, POLYTHIOPHENES, AND BLOCK COPOLYMERS	Richard D. McCullough, Elaine E. Shima, Mihaila C. Iovu	PLA/2002/561	Japan	2012121724	31-Mar-06			Pending	Carnegie Mellon University
LIVING SYNTHESIS OF CONDUCTING POLYMERS INCLUDING REGIOREGULAR POLYMERS, POLYTHIOPHENES, AND BLOCK COPOLYMERS	Richard D. McCullough, Elaine E. Shima, Mihaila C. Iovu	PLA/2002/570	Singapore	2007088458	31-Mar-06	135794	31-Mar-10	Issued	Carnegie Mellon University

LIVING SYNTHESIS OF CONDUCTING POLYMERS INCLUDING REGIOREGULAR POLYMERS, POLYTHIOPHENES, AND BLOCK COPOLYMERS	Richard D. McCullough, Elaine E. Shain, Mithash C. Iovu	PLA/2007.580	China	206800165243	31-Mar-06	206800165243	7-Dec-11	Issued	Carnegie Mellon University
LIVING SYNTHESIS OF CONDUCTING POLYMERS INCLUDING REGIOREGULAR POLYMERS, POLYTHIOPHENES, AND BLOCK COPOLYMERS	Richard D. McCullough, Elaine E. Shain, Mithash C. Iovu	PLA/2007.640	Hong Kong	81149590	30-Dec-08			Pending	Carnegie Mellon University
LIVING SYNTHESIS OF CONDUCTING POLYMERS INCLUDING REGIOREGULAR POLYMERS, POLYTHIOPHENES, AND BLOCK COPOLYMERS	Richard D. McCullough, Elaine E. Shain, Mithash C. Iovu	PLA/2007.700	European Patent Office	67490003	31-Mar-06			Pending	Carnegie Mellon University
PURIFICATION METHODS AND PURIFIED POLYMERS	Richard D. McCullough, Mithash C. Iovu	PLA/2007.200	United States of America	11849229	31-Aug-07	7671173	2-Mar-10	Issued	Carnegie Mellon University
PURIFICATION METHODS AND PURIFIED POLYMERS	Richard D. McCullough, Mithash C. Iovu	PLA/2007.300	PCT	PCT/US2007/077465	31-Aug-07			Expired	Carnegie Mellon University
PURIFICATION METHODS AND PURIFIED POLYMERS	Richard D. McCullough, Mithash C. Iovu	PLA/2007.550	Republic of Korea	102097006604	31-Aug-07			Pending	Carnegie Mellon University
PURIFICATION METHODS AND PURIFIED POLYMERS	Richard D. McCullough, Mithash C. Iovu	PLA/2007.560	Japan	2009529344	31-Aug-07			Pending	Carnegie Mellon University
PURIFICATION METHODS AND PURIFIED POLYMERS	Richard D. McCullough, Mithash C. Iovu	PLA/2007.580	China	2007800325355	31-Aug-07			Pending	Carnegie Mellon University
PURIFICATION METHODS AND PURIFIED POLYMERS	Richard D. McCullough, Mithash C. Iovu	PLA/2007.640	Hong Kong	91107270	17-Nov-09			Pending	Carnegie Mellon University
PURIFICATION METHODS AND PURIFIED POLYMERS	Richard D. McCullough, Mithash C. Iovu	PLA/2007.700	European Patent Office	76710530	31-Aug-07			Pending	Carnegie Mellon University
PURIFICATION METHODS AND PURIFIED POLYMERS	Richard D. McCullough, Mithash C. Iovu	PLA/2007.800	Taiwan R.O.C.	96132655	31-Aug-07			Pending	Carnegie Mellon University

Case No.	Class	Title	Abstract	Inventors	Inventor No.	Country	Applicant No.	Priority No.	Pub. No.	Pub. Date	Status	Owner	Abs. Class.
0182	0182	INTERSECTION OF PROBABLY FLAT SURFACES METHODS FOR DETERMINING THE IDENTIFICATION OF SUCH SURFACES	Method for determining the intersection of two possibly non-parallel planar surfaces... [Detailed description of the geometric method for finding intersection points and planes in 3D space.]	Shaw, P. William, David Lark, Troy D. [et al.]	P13-098343	USA	9179094	13/46788	13/46788	2014/04/29	Patent	Performance	0182
0182	0182	INTERSECTION OF PROBABLY FLAT SURFACES METHODS FOR DETERMINING THE IDENTIFICATION OF SUCH SURFACES	Method for determining the intersection of two possibly non-parallel planar surfaces... [Detailed description of the geometric method for finding intersection points and planes in 3D space.]	Shaw, P. William, David Lark, Troy D. [et al.]	P13-098343	USA	9179094	13/46788	13/46788	2014/04/29	Patent	Performance	0182
0182	0182	INTERSECTION OF PROBABLY FLAT SURFACES METHODS FOR DETERMINING THE IDENTIFICATION OF SUCH SURFACES	Method for determining the intersection of two possibly non-parallel planar surfaces... [Detailed description of the geometric method for finding intersection points and planes in 3D space.]	Shaw, P. William, David Lark, Troy D. [et al.]	P13-098343	USA	9179094	13/46788	13/46788	2014/04/29	Patent	Performance	0182
0182	0182	INTERSECTION OF PROBABLY FLAT SURFACES METHODS FOR DETERMINING THE IDENTIFICATION OF SUCH SURFACES	Method for determining the intersection of two possibly non-parallel planar surfaces... [Detailed description of the geometric method for finding intersection points and planes in 3D space.]	Shaw, P. William, David Lark, Troy D. [et al.]	P13-098343	USA	9179094	13/46788	13/46788	2014/04/29	Patent	Performance	0182
0182	0182	INTERSECTION OF PROBABLY FLAT SURFACES METHODS FOR DETERMINING THE IDENTIFICATION OF SUCH SURFACES	Method for determining the intersection of two possibly non-parallel planar surfaces... [Detailed description of the geometric method for finding intersection points and planes in 3D space.]	Shaw, P. William, David Lark, Troy D. [et al.]	P13-098343	USA	9179094	13/46788	13/46788	2014/04/29	Patent	Performance	0182

9/1/2013

Continued

TRADEMARK
REEL: 005116 FRAME: 0144

Case Type	Title	Abstract	Inventors	Agent Number	County	Application Number	Application Date	Revised Patent Application	Priority Date	Grant Date	Status	Owner	Additional Address
000	ELCATION OF ANIS AND ARTICLES COMBINATIONS FOR THERAPEUTICS	Electronically responsive elements based on composite polymers including heteroatoms... (text truncated)	Changyue Chen, Min E. Winkler, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Pending	Pennovo	
000	ELCATION OF ANIS AND ARTICLES COMBINATIONS FOR THERAPEUTICS	Electronically responsive elements based on composite polymers including heteroatoms... (text truncated)	Changyue Chen, Min E. Winkler, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Pending	Pennovo	
000	ELCATION OF ANIS AND ARTICLES COMBINATIONS FOR THERAPEUTICS	Electronically responsive elements based on composite polymers including heteroatoms... (text truncated)	Changyue Chen, Min E. Winkler, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Pending	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Abandoned	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	
000	IDENTIFICATION OF COMBINATIONS FOR THERAPEUTICS	Identifying polymer materials for their application in composite polymer applications... (text truncated)	Daniel Lang, Steven F. Williams, Daniel E. Williams, Steven G. Thayer	732,897,149	Illinois	1384310	21-Nov-11				Revised	Pennovo	

Case Title	TITLE	ABSTRACT	INVENTORS	INVEST NUMBER	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	PUBLICATION DATE	PATENT NUMBER	GRANT DATE	STATUS	OWNER	ADDITIONAL ASSIGNEE
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049748	Japan	20032071	1/13/07				Final	Patent	
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049749	Japan	20030691	1/13/07		14470	1/13/11	Final	Patent	
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049750	China	2007001236	1/13/07				Final	Patent	
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049751	Malaysia	PT090915	1/13/07				Final	Patent	
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049752	India	196422	1/13/07		19623	02/21/11	Final	Patent	
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049753	India	1902042009	1/13/07				Final	Patent	
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049754	India, Czech	18100248	1/13/07				Final	Patent	
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049755	Germany, Poland, Czech	7607221	1/13/07				Final	Patent	
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049756	Germany, Poland, Czech	072194187112	1/13/07				Final	Patent	
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049757	France, U.S.C.	612108	2/13/07				Final	Patent	
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049758	United States of America	6612261	1/13/06		66	9/9	Expired	Patent	Motor-Car
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049759	United States of America	1111937	2/10/07		03210311712	10/21/12	Final	Patent	Motor-Car
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049760	United States of America	1280776	2/10/07		1280776		Final	Patent	Motor-Car
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049761	United States of America	1127214	1/13/07		1127214		Final	Patent	Motor-Car
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049762	United States of America	1161637	10/16/11				Final	Patent	Motor-Car
FILED	FILED	... (text truncated) ...	Yoshimasa Sasaki, Tetsuo Iizawa, Takashi Sasaki, Takashi Sasaki, Takashi Sasaki	PJL-049763	U.S.	20120010101	2/10/07		20120010101	9/9	Expired	Patent	Motor-Car

TRADE MARK
REEL: 005116 FRAME: 0148

Case Title	Abstract	Inventors	Priority Number	Country	Application Number	Application Date	Publication/ Patent Application No.	Priority Number and Filing Date	Grant Status	Owner	Applicant
OLEF	CYCLUS OF A LAMALON (THESE) AND METHODS FOR MAKING AND USING	Yoshinori Sasaki, Shiro E. Sasaki	PLC-0842-20	United States of America	1317231	17-Dec-10	pub in lab		Pending	Partner	
OLEF	CYCLUS OF A LAMALON (THESE) AND METHODS FOR MAKING AND USING	Yoshinori Sasaki, Shiro E. Sasaki	PLC-0842-20	JCT	PCT/JP084191	17-Dec-10	IP201002121	04	04	Partner	
OLEF	CYCLUS OF A LAMALON (THESE) AND METHODS FOR MAKING AND USING	Yoshinori Sasaki, Shiro E. Sasaki	PLC-0842-20	Republic of Korea	102317011E1	17-Dec-10			Pending	Partner	
OLEF	CYCLUS OF A LAMALON (THESE) AND METHODS FOR MAKING AND USING	Yoshinori Sasaki, Shiro E. Sasaki	PLC-0842-20	Japan	2012-24284	17-Dec-10			Pending	Partner	
OLEF	CYCLUS OF A LAMALON (THESE) AND METHODS FOR MAKING AND USING	Yoshinori Sasaki, Shiro E. Sasaki	PLC-0842-20	European Patent Office	EP13790271	17-Dec-10			Pending	Partner	
OLEF	CYCLUS OF A LAMALON (THESE) AND METHODS FOR MAKING AND USING	Yoshinori Sasaki, Shiro E. Sasaki	PLC-0842-20	United States of America	6122231	16-Jun-09	04	04	04	Partner	
OLEF	CYCLUS OF A LAMALON (THESE) AND METHODS FOR MAKING AND USING	Yoshinori Sasaki, Shiro E. Sasaki	PLC-0842-20	United States of America	3235246	18-Apr-09	US201001232	047042	022203	Partner	
OLEF	CYCLUS OF A LAMALON (THESE) AND METHODS FOR MAKING AND USING	Yoshinori Sasaki, Shiro E. Sasaki	PLC-0842-20	JCT	PCT/JP084229	18-Apr-09	IP200902332	04	04	Partner	
OLEF	CYCLUS OF A LAMALON (THESE) AND METHODS FOR MAKING AND USING	Yoshinori Sasaki, Shiro E. Sasaki	PLC-0842-20	Germany, Jct	10132737	18-Apr-09			Pending	Partner	
OPY	GRANULE LEUCOCYTES AND METHODS FOR MAKING AND USING	Christopher T. Jones, Chad Lusk, Christopher Jones, Chad Lusk, Shiro E. Sasaki, T. S. Sasaki	PLC-0842-20	United States of America	6128181	14-Sep-09	04	04	04	Partner	
OPY	GRANULE LEUCOCYTES AND METHODS FOR MAKING AND USING	Christopher T. Jones, Chad Lusk, Christopher Jones, Chad Lusk, Shiro E. Sasaki, T. S. Sasaki	PLC-0842-20	United States of America	1471157	14-Sep-09	IP200901151		Pending	Partner	
OPY	GRANULE LEUCOCYTES AND METHODS FOR MAKING AND USING	Christopher T. Jones, Chad Lusk, Christopher Jones, Chad Lusk, Shiro E. Sasaki, T. S. Sasaki	PLC-0842-20	JCT	PCT/US084197	14-Sep-09	IP200802332	04	04	Partner	
OPY	GRANULE LEUCOCYTES AND METHODS FOR MAKING AND USING	Christopher T. Jones, Chad Lusk, Christopher Jones, Chad Lusk, Shiro E. Sasaki, T. S. Sasaki	PLC-0842-20	Republic of Korea	102317011E1	14-Sep-09			Pending	Partner	



APP NO.	TITLE	ABSTRACT	INVENTORS	INVENTOR NUMBER	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	PUBLICATION DATE	GRANT NUMBER	GRANT DATE	SYSTEM	OWNER	ADDITIONAL APPLICANT
001	GRANT FIVE YEAR PLAN FOR THE DEVELOPMENT OF A NEW TYPE OF POLYMERIZATION CATALYST	Polymers which can be used to prepare materials for electronic devices and... [Detailed abstract text]	Charles E. Jones, Charles L. Jones, Charles L. Jones, Charles L. Jones	PL-477-148	USA	20120015	1-29-10				Patent	Phonix	
002	GRANT FIVE YEAR PLAN FOR THE DEVELOPMENT OF A NEW TYPE OF POLYMERIZATION CATALYST	Polymers which can be used to prepare materials for electronic devices and... [Detailed abstract text]	Charles E. Jones, Charles L. Jones, Charles L. Jones, Charles L. Jones	PL-477-148	USA	1074114	1-29-10				Patent	Phonix	
003	GRANT FIVE YEAR PLAN FOR THE DEVELOPMENT OF A NEW TYPE OF POLYMERIZATION CATALYST	Polymers which can be used to prepare materials for electronic devices and... [Detailed abstract text]	David E. Stone, Charles E. Jones, Charles L. Jones, Charles L. Jones	PL-477-148	USA	0110117	4-29-10				Patent	Phonix	
004	GRANT FIVE YEAR PLAN FOR THE DEVELOPMENT OF A NEW TYPE OF POLYMERIZATION CATALYST	Polymers which can be used to prepare materials for electronic devices and... [Detailed abstract text]	David E. Stone, Charles E. Jones, Charles L. Jones, Charles L. Jones	PL-477-148	USA	0110117	2-14-10				Patent	Phonix	
005	GRANT FIVE YEAR PLAN FOR THE DEVELOPMENT OF A NEW TYPE OF POLYMERIZATION CATALYST	Polymers which can be used to prepare materials for electronic devices and... [Detailed abstract text]	David E. Stone, Charles E. Jones, Charles L. Jones, Charles L. Jones	PL-477-148	USA	1074114	1-29-10	US20120015			Patent	Phonix	
006	GRANT FIVE YEAR PLAN FOR THE DEVELOPMENT OF A NEW TYPE OF POLYMERIZATION CATALYST	Polymers which can be used to prepare materials for electronic devices and... [Detailed abstract text]	David E. Stone, Charles E. Jones, Charles L. Jones, Charles L. Jones	PL-477-148	USA	1074114	1-29-10	US20120015			Patent	Phonix	
007	GRANT FIVE YEAR PLAN FOR THE DEVELOPMENT OF A NEW TYPE OF POLYMERIZATION CATALYST	Polymers which can be used to prepare materials for electronic devices and... [Detailed abstract text]	David E. Stone, Charles E. Jones, Charles L. Jones, Charles L. Jones	PL-477-148	USA	1074114	1-29-10	US20120015			Patent	Phonix	
008	GRANT FIVE YEAR PLAN FOR THE DEVELOPMENT OF A NEW TYPE OF POLYMERIZATION CATALYST	Polymers which can be used to prepare materials for electronic devices and... [Detailed abstract text]	David E. Stone, Charles E. Jones, Charles L. Jones, Charles L. Jones	PL-477-148	USA	1074114	1-29-10	US20120015			Patent	Phonix	
009	GRANT FIVE YEAR PLAN FOR THE DEVELOPMENT OF A NEW TYPE OF POLYMERIZATION CATALYST	Polymers which can be used to prepare materials for electronic devices and... [Detailed abstract text]	David E. Stone, Charles E. Jones, Charles L. Jones, Charles L. Jones	PL-477-148	USA	1074114	1-29-10	US20120015			Patent	Phonix	
010	GRANT FIVE YEAR PLAN FOR THE DEVELOPMENT OF A NEW TYPE OF POLYMERIZATION CATALYST	Polymers which can be used to prepare materials for electronic devices and... [Detailed abstract text]	David E. Stone, Charles E. Jones, Charles L. Jones, Charles L. Jones	PL-477-148	USA	1074114	1-29-10	US20120015			Patent	Phonix	

Core Tech	TITLE	INVENTORS	DOCKET NUMBER	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	Published Patent Application	PATENT NUMBER and link to patent pdf	GRANT DATE	STATUS	OWNER
FoC	ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	Takeshi Otsuka, Yoichi Kanda, Toru Miyajima	ILX-9301-200	United States of America		Mar 19, 2010				Pending	Plextronics
FoC	ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	Takeshi Otsuka, Yoichi Kanda, Toru Miyajima	ILX-9301-500	FCT	FCT/P2010054765	Mar 19, 2010	WO/2011/01000			Unified	Plextronics
FoC	ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	Takeshi Otsuka, Yoichi Kanda, Toru Miyajima	ILX-9301-950	Republic of Korea		Mar 19, 2010				Pending	Plextronics
FoC	ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	Takeshi Otsuka, Yoichi Kanda, Toru Miyajima	ILX-9301-560	Japan	JP201009499	Mar 16, 2010				Pending	Plextronics
FoC	ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	Takeshi Otsuka, Yoichi Kanda, Toru Miyajima	ILX-9301-570	Singapore		Mar 19, 2010				Pending	Plextronics
FoC	ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	Takeshi Otsuka, Yoichi Kanda, Toru Miyajima	ILX-9301-530	China		Mar 19, 2010				Pending	Plextronics
FoC	ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	Takeshi Otsuka, Yoichi Kanda, Toru Miyajima	ILX-9301-700	European Patent Office		Mar 19, 2010				Pending	Plextronics
FoC	ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	Takeshi Otsuka, Yoichi Kanda, Toru Miyajima	ILX-9301-600	Taiwan R.O.C.	93108370	Mar 22, 2010				Pending	Plextronics
LIB	BINDER FOR POSITIVE ELECTRODE OF LITHIUM ION SECONDARY BATTERY AND POSITIVE ELECTRODE MATERIAL	Takeshi Otsuka, Bumpel Yoshida	ILX-9302-500	FCT	FCT/P2010055570	Mar 9, 2010	WO/2011/013676			Pending	Plextronics
LIB	BINDER FOR POSITIVE ELECTRODE OF LITHIUM ION SECONDARY BATTERY AND POSITIVE ELECTRODE MATERIAL	Takeshi Otsuka, Bumpel Yoshida	ILX-9302-560	Japan	JP2010065916	Mar 25, 2010				Pending	Plextronics
LIB	BINDER FOR POSITIVE ELECTRODE OF LITHIUM ION SECONDARY BATTERY AND POSITIVE ELECTRODE MATERIAL	Takeshi Otsuka, Bumpel Yoshida	ILX-9302-900	Taiwan R.O.C.	TW201100014	Mar 29, 2010				Pending	Plextronics
FoC	CONDUCTIVE COMPOSITION AND METHOD FOR PRODUCING CONDUCTIVE COATING FILM	Takeshi Otsuka, Hiroshi Fukumoto, Satoshi Yamashita, Yoichi Kanda	ILX-9303-500	FCT	FCT/P2011/73812	Jan 17, 2011	WO/2012/03474			Pending	Plextronics
LIB	ADDITIVE FOR POSITIVE ELECTRODES OF LITHIUM SECONDARY BATTERIES, AND POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERIES	Takeshi Otsuka, Bumpel Yoshida, Atsushi Wakabayashi, Takuma Takeda	ILX-9304-700	United States of America	1397658	Jan 12, 2012				Pending	Plextronics
LIB	ADDITIVE FOR POSITIVE ELECTRODES OF LITHIUM SECONDARY BATTERIES, AND POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERIES	Takeshi Otsuka, Bumpel Yoshida, Atsushi Wakabayashi, Takuma Takeda	ILX-9304-500	FCT	FCT/P2012050454	Jan 12, 2012		EP 1108116		Pending	Plextronics
LIB	ADDITIVE FOR POSITIVE ELECTRODES OF LITHIUM SECONDARY BATTERIES, AND POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERIES	Takeshi Otsuka, Bumpel Yoshida, Atsushi Wakabayashi, Takuma Takeda	ILX-9304-950	Republic of Korea	1020137020169	Jul 30, 2013				Pending	Plextronics
LIB	ADDITIVE FOR POSITIVE ELECTRODES OF LITHIUM SECONDARY BATTERIES, AND POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERIES	Takeshi Otsuka, Bumpel Yoshida, Atsushi Wakabayashi, Takuma Takeda	ILX-9304-960	Japan	2011003884	Jan 12, 2011				Pending	Plextronics
LIB	ADDITIVE FOR POSITIVE ELECTRODES OF LITHIUM SECONDARY BATTERIES, AND POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERIES	Takeshi Otsuka, Bumpel Yoshida, Atsushi Wakabayashi, Takuma Takeda	ILX-9304-510	Singapore		Jan 12, 2012				Pending	Plextronics
LIB	ADDITIVE FOR POSITIVE ELECTRODES OF LITHIUM SECONDARY BATTERIES, AND POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERIES	Takeshi Otsuka, Bumpel Yoshida, Atsushi Wakabayashi, Takuma Takeda	ILX-9304-580	China		Jan 12, 2012				Pending	Plextronics
LIB	ADDITIVE FOR POSITIVE ELECTRODES OF LITHIUM SECONDARY BATTERIES, AND POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERIES	Takeshi Otsuka, Bumpel Yoshida, Atsushi Wakabayashi, Takuma Takeda	ILX-9304-660	Hong Kong						Unified	Plextronics
LIB	ADDITIVE FOR POSITIVE ELECTRODES OF LITHIUM SECONDARY BATTERIES, AND POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERIES	Takeshi Otsuka, Bumpel Yoshida, Atsushi Wakabayashi, Takuma Takeda	ILX-9304-700	European Patent Office		Jan 12, 2012				Pending	Plextronics
FoC	CONDUCTIVE POLYMER FOR SOLID ELECTROLYTE CAPACITOR	Yoichi Mori, Takuma Takeda, Yoshia Bumpel	ILX-9305-200	United States of America	1390364	May 28, 2013				Pending	Plextronics
FoC	CONDUCTIVE POLYMER FOR SOLID ELECTROLYTE CAPACITOR	Yoichi Mori, Takuma Takeda, Yoshia Bumpel	ILX-9305-500	FCT						Unified	Plextronics
FoC	CONDUCTIVE POLYMER FOR SOLID ELECTROLYTE CAPACITOR	Yoichi Mori, Takuma Takeda, Yoshia Bumpel	ILX-9305-950	Japan	20121121549	May 29, 2012				Pending	Plextronics
FoC	CONDUCTIVE POLYMER FOR SOLID ELECTROLYTE CAPACITOR	Yoichi Mori, Takuma Takeda, Yoshia Bumpel	ILX-9305-900	Taiwan R.O.C.						Unified	Plextronics