

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.		05/24/2013	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:	4125621041		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>			
Phone:	412-562-1622		
Email:	vicki.cremonese@bipc.com		
Correspondent Name:	Duane A. Stewart III		
Address Line 1:	301 Grant Street		
Address Line 2:	20th Floor		
Address Line 4:	Pittsburgh, PENNSYLVANIA 15219		
ATTORNEY DOCKET NUMBER:	0047667-000025		
NAME OF SUBMITTER:	Duane A. Stewart III		

CH \$90.00 3948114

Signature:	/Duane A. Stewart III/
Date:	05/24/2013
Total Attachments: 18 source=plextronics-solvay america security interest#page1.tif source=plextronics-solvay america security interest#page2.tif source=plextronics-solvay america security interest#page3.tif source=plextronics-solvay america security interest#page4.tif source=plextronics-solvay america security interest#page5.tif source=plextronics-solvay america security interest#page6.tif source=plextronics-solvay america security interest#page7.tif source=plextronics-solvay america security interest#page8.tif source=plextronics-solvay america security interest#page9.tif source=plextronics-solvay america security interest#page10.tif source=plextronics-solvay america security interest#page11.tif source=plextronics-solvay america security interest#page12.tif source=plextronics-solvay america security interest#page13.tif source=plextronics-solvay america security interest#page14.tif source=plextronics-solvay america security interest#page15.tif source=plextronics-solvay america security interest#page16.tif source=plextronics-solvay america security interest#page17.tif source=plextronics-solvay america security interest#page18.tif	

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 May 24, 2013 is made by PLEXTRONICS, INC., a Delaware corporation (the “**Grantor**”) in favor of SOLVAY AMERICA, Inc., a Delaware corporation (“**Solvay**”), and the other investors set forth on Schedule I to the Solvay 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 Solvay Security Agreement, as applicable.

WHEREAS, pursuant to the Security Agreements dated as of May 24, 2013 (as amended, restated, amended and restated, supplemented, waived or otherwise modified or replaced from time to time, the “**Solvay Security Agreement**”), by and between the Grantor and Solvay, as well as additional Security Agreements entered into with each of the other Lenders on each of June 30, 2011, April 17, 2012 and July 13, 2012 (collectively, the “**Security Agreements**”) the Grantor has granted to the Lenders a *pari passu* 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, including the Note issued to Solvay in accordance with the terms of that certain Convertible Note and Warrant Purchase Agreement dated as of May 24, 2013 (as amended, restated, amended and restated, supplemented, waived or otherwise modified or replaced from time to time, the “**Purchase Agreement**”).

WHEREAS, the Grantor and Lenders are party to that certain Second Amended and Restated Intercreditor Agreement dated as of May 24, 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 various Lenders as it relates to the Collateral.

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

WHEREAS, in order to evidence such security interest and to perfect the Lenders’ 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, U.S. Copyright Office or 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 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 A hereto;

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

(c) all Copyrights, in each case now existing or hereafter adopted or acquired, including those set forth in Schedule A 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. 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 A 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 A, 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 Grantor's ownership rights therein; (iii) to the best of Grantor's knowledge, each of the Intellectual Property and IP Agreements is valid and enforceable; (iv) to the best of 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 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 Grantor's knowledge, there is no infringement by Grantor of the intellectual property rights of others; (vi) subject to the co-owned Intellectual Property as indicated on Schedule A, 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 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 rights granted to the 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) 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 Grantor shall continue to comply with the covenants herein contained; (viii) 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) 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 Solvay's prior written consent, which shall not be unreasonably withheld, 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 Solvay 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, 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 Grantor shall promptly provide to Solvay notice thereof in writing and execute and deliver to the Lenders such documents or instruments as the Lenders may reasonably request further to implement, preserve or evidence the Lenders' interest therein.

5.2 Amendment to Schedule. Grantor and the other Lenders hereto authorize Solvay to modify this IP Security Agreement, without the necessity of the Grantor's or other Lenders' further approval or signature, solely so as to amend Schedule A hereto to include any future or other Patent, Trademark or Copyright registrations or applications.

SECTION 6. [Intentionally omitted]

SECTION 7. 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 8. Grants, Rights and Remedies. This IP Security Agreement has been entered into in conjunction with the provisions of the Security Agreement and 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 Lenders with respect to the Collateral are more fully set forth in the Security Agreements and Intercreditor Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this IP Security Agreement and the terms of the Intercreditor Agreement, the terms of the Intercreditor Agreement shall govern.

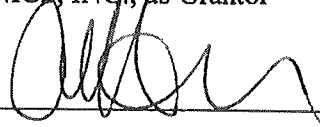
SECTION 9. Governing Law. THIS IP SECURITY AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES UNDER THIS IP SECURITY AGREEMENT AND ALL CLAIMS RELATING TO THE SUBJECT MATTER HEREOF, WHETHER SOUNDING IN CONTRACT LAW OR TORT LAW, SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAWS OF THE STATE OF DELAWARE.

SECTION 10. 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: _____
Title: _____

Accepted and Agreed to:

SOLVAY AMERICA, INC.

CL

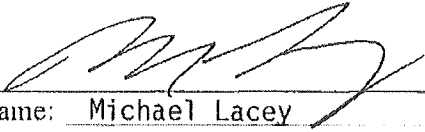
By: 
Name: Michael Lacey
Title: President

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 A 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 any Grantor of every kind and nature (other than accounts (as defined in the UCC)) now owned or hereafter acquired by any 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 any 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 A, (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 A and all renewals thereof, including those listed on Schedule A (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 any 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
Intellectual Property

Patents

See attached PDF

Trademarks

Trademark Status Report – May 21, 2013

Country	Mark	Reg. No.	Reg. Date	Status	Next Action Due
China	PLEXCORE	Pending	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	Pending	Filed	Awaiting Trademark Office Review
South Korea	PLEXTRONICS	40/880575	9/15/2011	Registered	Renewal 09/15/2021
South Korea	PLEXCORE	Pending	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

Copyrights**Registered Copyrights**

None.

Copyright Application

None.

APPLICATION NUMBER	COUNTRY	STATUS	APP'LN DATE	PATENT NUMBER	GRANT DATE	TITLE	CO-ASSIGNEE or Assignment status
11234373	United States of America	Issued	26-Sep-05	7790979	Sep 7, 2010	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
2007533636	Japan	Issued	26-Sep-05	4981672	Apr 27, 2012	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
2007020811	Singapore	Pending	26-Sep-05			HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
2009063512	Singapore	Issued	26-Sep-05	155965	May 31, 2011	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
2005800369871	China	Issued	26-Sep-05	ZL200580036987.1	Jan 20, 2010	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
081050955	Hong Kong	Issued	7-May-08	1115229	Aug 27, 2010	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
058101759	European Patent Office	Issued	26-Sep-05	1805825	Aug 24, 2011	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
058101759	Belgium	Issued	26-Sep-05	EP1805825	Aug 24, 2011	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
058101759	France	Issued	26-Sep-05	EP1805825	Aug 24, 2011	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
058101759	Germany	Issued	26-Sep-05	602005029796.0	Aug 24, 2011	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
058101759	United Kingdom	Issued	26-Sep-05	EP1805825	Aug 24, 2011	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
058101759	Netherlands	Issued	26-Sep-05	EP1805825	Aug 24, 2011	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR PHOTOVOLTAIC CELLS	
11234374	United States of America	Pending	26-Sep-05			HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
1020077009138	Republic of Korea	Pending	26-Sep-05			HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
1020137001837	Republic of Korea	Pending	23-Jan-13			HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
2007533635	Japan	Issued	26-Sep-05	5041535	Jul 5, 2012	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
2007021017	Singapore	Pending	26-Sep-05			HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
2009063520	Singapore	Issued	26-Sep-05	155966	May 31, 2011	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
2005800368436	China	Pending	26-Sep-05			HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
081050964	Hong Kong	Pending	7-May-08			HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
057983116	European Patent Office	Issued	26-Sep-05	1805826	Mar 24, 2010	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
057983116	Belgium	Issued	26-Sep-05	1805826	Mar 24, 2010	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
057983116	France	Issued	26-Sep-05	1805826	Mar 24, 2010	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
057983116	Germany	Issued	26-Sep-05	1805826	Mar 24, 2010	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
057983116	United Kingdom	Issued	26-Sep-05	1805826	Mar 24, 2010	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
057983116	Netherlands	Issued	26-Sep-05	1805826	Mar 24, 2010	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES FOR ELECTROLUMINESCENT DEVICES	
11274918	United States of America	Issued	16-Nov-05	7321133	Jan 22, 2008	HETEROATOMIC REGIOREGULAR POLY (3-SUBSTITUTED) THIOPHENES AS THIN FILM CONDUCTORS IN DIODES WHICH ARE NOT LIGHT EMITTING OR PHOTOVOLTAIC	
11350271	United States of America	Issued	9-Feb-06	7569159	Aug 4, 2009	HOLE INJECTION/TRANSPORT LAYER COMPOSITIONS AND DEVICES	
1020077020585	Republic of Korea	Pending	9-Feb-06			HOLE INJECTION/TRANSPORT LAYER COMPOSITIONS AND DEVICES	

APPLICATION NUMBER	COUNTRY	STATUS	APPLN DATE	PATENT NUMBER	GRANT DATE	TITLE	CO-ASSIGNEE or Assignment status
1020137007223	Republic of Korea	Pending	21-Mar-13			HOLE INJECTION/TRANSPORT LAYER COMPOSITIONS AND DEVICES	
2007555192	Japan	Issued	9-Feb-06	4975648	Apr 20, 2012	HOLE INJECTION/TRANSPORT LAYER COMPOSITIONS AND DEVICES	
2007057839	Singapore	Issued	9-Feb-06	134607	Feb 26, 2010	HOLE INJECTION/TRANSPORT LAYER COMPOSITIONS AND DEVICES	
2006800075641	China	Pending	9-Feb-06			HOLE INJECTION/TRANSPORT LAYER COMPOSITIONS AND DEVICES	
P120060573	Malaysia	Issued	10-Feb-06	MY-140651-A	Jan 15, 2010	HOLE INJECTION/TRANSPORT LAYER COMPOSITIONS AND DEVICES	
067205005	European Patent Office	Pending	9-Feb-06			HOLE INJECTION/TRANSPORT LAYER COMPOSITIONS AND DEVICES	
095104614	Taiwan R.O.C.	Allowed	10-Feb-06			HOLE INJECTION/TRANSPORT LAYER COMPOSITIONS AND DEVICES	
1020077021182	Republic of Korea	Pending	16-Mar-06			COPOLYMERS OF SOLUBLE POLYTHIOPHENES WITH IMPROVED ELECTRONIC PERFORMANCE	
2008502030	Japan	Pending	16-Mar-06			COPOLYMERS OF SOLUBLE POLYTHIOPHENES WITH IMPROVED ELECTRONIC PERFORMANCE	
11496024	United States of America	Issued	31-Jul-06	7888427	Feb 15, 2011	SOLVENT SUPPRESSED DOPING OF REGIOREGULAR POLYTHIOPHENE (LATENT DOPING)	
1020087002651	Republic of Korea	Pending	31-Jul-06			SOLVENT SUPPRESSED DOPING OF REGIOREGULAR POLYTHIOPHENE (LATENT DOPING)	
2008525060	Japan	Pending	31-Jul-06			SOLVENT SUPPRESSED DOPING OF REGIOREGULAR POLYTHIOPHENE (LATENT DOPING)	
2008002099	Singapore	issued	31-Jul-06	139023	Oct 29, 2010	SOLVENT SUPPRESSED DOPING OF REGIOREGULAR POLYTHIOPHENE (LATENT DOPING)	
200680028282X	China	Pending	31-Jul-06			SOLVENT SUPPRESSED DOPING OF REGIOREGULAR POLYTHIOPHENE (LATENT DOPING)	
P120063684	Malaysia	Pending	31-Jul-06			SOLVENT SUPPRESSED DOPING OF REGIOREGULAR POLYTHIOPHENE (LATENT DOPING)	
091003532	Hong Kong	Pending	14-Jan-09			SOLVENT SUPPRESSED DOPING OF REGIOREGULAR POLYTHIOPHENE (LATENT DOPING)	
095128153	Taiwan R.O.C.	Pending	1-Aug-06			SOLVENT SUPPRESSED DOPING OF REGIOREGULAR POLYTHIOPHENE (LATENT DOPING)	
12161546	United States of America	Pending	18-Jan-07			ELECTROSTATIC COATINGS AND ARTICLES COMPRISING POLYTHIOPHENES	
1020087017624	Republic of Korea	Pending	18-Jan-07			ELECTROSTATIC COATINGS AND ARTICLES COMPRISING POLYTHIOPHENES	
2008551361	Japan	Pending	18-Jan-07			ELECTROSTATIC COATINGS AND ARTICLES COMPRISING POLYTHIOPHENES	
2008050114	Singapore	Issued	18-Jan-07	144296	Mar 31, 2011	ELECTROSTATIC COATINGS AND ARTICLES COMPRISING POLYTHIOPHENES	
2007800024964	China	Issued	18-Jan-07	ZL2007800002496.4	Nov 16, 2011	ELECTROSTATIC COATINGS AND ARTICLES COMPRISING POLYTHIOPHENES	
PI20082692	Malaysia	Pending	18-Jan-07			ELECTROSTATIC COATINGS AND ARTICLES COMPRISING POLYTHIOPHENES	
091046540	Hong Kong	Pending	21-May-09			ELECTROSTATIC COATINGS AND ARTICLES COMPRISING POLYTHIOPHENES	
77180982	European Patent Office	Pending	18-Jan-07			ELECTROSTATIC COATINGS AND ARTICLES COMPRISING POLYTHIOPHENES	
96102112	Taiwan R.O.C.	Pending	19-Jan-07			ELECTROSTATIC COATINGS AND ARTICLES COMPRISING POLYTHIOPHENES	
11826394	United States of America	Issued	13-Jul-07	8017241	Sep 13, 2011	SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
13209210	United States of America	Issued	12-Aug-11	8399604	Mar 19, 2013	SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
13768967	United States of America	Pending	15-Feb-13			SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
2658181	Canada	Pending	13-Jul-07			SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
1020097003476	Republic of Korea	Pending	13-Jul-07			SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
2009520771	Japan	Pending	13-Jul-07			SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	

APPLICATION NUMBER	COUNTRY	STATUS	APP'LN DATE	PATENT NUMBER	GRANT DATE	TITLE	CO-ASSIGNEE or Assignment status
2009004011	Singapore	Issued	13-Jul-07	149470	Aug 15, 2011	SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
2007800347246	China	Pending	13-Jul-07	200780034724.6		SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
P120090255	Malaysia	Pending	13-Jul-07			SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
196622	Israel	Pending	13-Jul-07			SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
610KOLNP2009	India	Pending	13-Jul-07			SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
101008268	Hong Kong	Pending	13-Jul-07			SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
078707221	European Patent Office	Pending	13-Jul-07			SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
EP1200518672102	European Patent Office	Pending	13-Jul-07			SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
096126688	Taiwan R.O.C.	Pending	20-Jul-07			SULFONATION OF CONDUCTING POLYMERS AND OLED PHOTOVOLTAIC AND ESD DEVICES	
11743587	United States of America	Issued	2-May-07	8217260	Jul 10, 2012	ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
12040776	United States of America	Pending	29-Feb-08			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
13526414	United States of America	Pending	18-Jun-12			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
13860187	United States of America	Pending	10-Apr-13			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
2655135	Canada	Pending	2-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
1020097000567	Republic of Korea	Pending	2-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
2009515390	Japan	Pending	2-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
2008090573	Singapore	Issued	2-May-07	148466	Dec 30, 2011	ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
2007800301577	China	Pending	2-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
CN2012105682101	China	Pending	2-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
P120085053	Malaysia	Pending	2-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
195846	Israel	Pending	2-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
5094KOLNP2008	India	Pending	2-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
101023704	Hong Kong	Pending	2-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
078357407	European Patent Office	Pending	2-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
120028162	European Patent Office	Pending	2-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
096116908	Taiwan R.O.C.	Pending	11-May-07			ORGANIC PHOTOVOLTAIC DEVICES COMPRISING FULLERENES AND DERIVATIVES THEREOF	Nano-C, Inc
12340587	United States of America	Pending	19-Dec-08			OPVS COMPRISING FULLERENES AND DERIVATIVES THEREOF AND IMPROVED METHODS OF MAKING ...	Nano-C, Inc
1020107013642	Republic of Korea	Pending	19-Dec-08			OPVS COMPRISING FULLERENES AND DERIVATIVES THEREOF AND IMPROVED METHODS OF MAKING ...	Nano-C, Inc

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2010539914	Japan	Pending	19-Dec-08			OPVS COMPRISING FULLERENES AND DERIVATIVES THEREOF AND IMPROVED METHODS OF MAKING ...	Nano-C, Inc
088664883	European Patent Office	Pending	19-Dec-08			OPVS COMPRISING FULLERENES AND DERIVATIVES THEREOF AND IMPROVED METHODS OF MAKING ...	Nano-C, Inc
097149955	Taiwan R.O.C.	Pending	19-Dec-08			OPVS COMPRISING FULLERENES AND DERIVATIVES THEREOF AND IMPROVED METHODS OF MAKING ...	Nano-C, Inc
1020097020328	Republic of Korea	Pending	30-Apr-08			SOLVENT BLENDS IN ACTIVE LAYER CONDUCTING POLYMER TECHNOLOGY FOR PRINTED ELECTRONIC DEVICES	
12153180	United States of America	Issued	14-May-08	7838624	Nov 23, 2010	MIXED HALOGEN POLYMERIZATION	
1020097024176	Republic of Korea	Pending	21-May-08			PORPHYRIN AND CONDUCTIVE POLYMER COMPOSITIONS FOR USE IN SOLID-STATE ELECTRONIC DEVICES	
087560777	European Patent Office	Pending	21-May-08			PORPHYRIN AND CONDUCTIVE POLYMER COMPOSITIONS FOR USE IN SOLID-STATE ELECTRONIC DEVICES	
12371556	United States of America	Pending	13-Feb-09			NOVEL COMPOSITIONS, METHODS, AND POLYMERS	
1020107019208	Republic of Korea	Pending	13-Feb-09			NOVEL COMPOSITIONS, METHODS, AND POLYMERS	
2010546943	Japan	Pending	13-Feb-09			NOVEL COMPOSITIONS, METHODS, AND POLYMERS	
097095202	European Patent Office	Pending	13-Feb-09			NOVEL COMPOSITIONS, METHODS, AND POLYMERS	
12395327	United States of America	Issued	27-Feb-09	8187501	May 29, 2012	PLANARIZING AGENTS AND DEVICES	
13456125	United States of America	Pending	25-Apr-12			PLANARIZING AGENTS AND DEVICES	
1020107021565	Republic of Korea	Pending	5-Mar-09			PLANARIZING AGENTS AND DEVICES	
2010548920	Japan	Pending	27-Feb-09			PLANARIZING AGENTS AND DEVICES	
097174775	European Patent Office	Issued	27-Feb-09	2250207	Jan 4, 2012	PLANARIZING AGENTS AND DEVICES	
097174775	Belgium	Issued	27-Feb-09	2250207	Jan 4, 2012	PLANARIZING AGENTS AND DEVICES	
097174775	France	Issued	27-Feb-09	2250207	Jan 4, 2012	PLANARIZING AGENTS AND DEVICES	
097174775	Germany	Issued	27-Feb-09	602009004539.3	Jan 4, 2012	PLANARIZING AGENTS AND DEVICES	
097174775	United Kingdom	Issued	27-Feb-09	2250207	Jan 4, 2012	PLANARIZING AGENTS AND DEVICES	
097174775	Netherlands	Issued	27-Feb-09	2250207	Jan 4, 2012	PLANARIZING AGENTS AND DEVICES	
12399006	United States of America	Pending	5-Mar-09			MODIFIED PLANARIZING AGENTS	
1020107021700	Republic of Korea	Pending	5-Mar-09			MODIFIED PLANARIZING AGENTS	
2010549899	Japan	Pending	5-Mar-09			MODIFIED PLANARIZING AGENTS	
097170062	European Patent Office	Pending	5-Mar-09			MODIFIED PLANARIZING AGENTS	
12422159	United States of America	Pending	10-Apr-09			DOPED CONJUGATED POLYMERS DEVICES AND METHODS OF MAKING THE SAME	
2720694	Canada	Pending	10-Apr-09			DOPED CONJUGATED POLYMERS DEVICES AND METHODS OF MAKING THE SAME	
1020107024707	Republic of Korea	Pending	10-Apr-09			DOPED CONJUGATED POLYMERS DEVICES AND METHODS OF MAKING THE SAME	
2011504213	Japan	Pending	10-Apr-09			DOPED CONJUGATED POLYMERS DEVICES AND METHODS OF MAKING THE SAME	
2010072551	Singapore	Pending	10-Apr-09			DOPED CONJUGATED POLYMERS DEVICES AND METHODS OF MAKING THE SAME	
2009801211505	China	Pending	10-Apr-09			DOPED CONJUGATED POLYMERS DEVICES AND METHODS OF MAKING THE SAME	
PI2010004662	Malaysia	Pending	10-Apr-09			DOPED CONJUGATED POLYMERS DEVICES AND METHODS OF MAKING THE SAME	
208569	Israel	Pending	10-Apr-09			DOPED CONJUGATED POLYMERS DEVICES AND METHODS OF MAKING THE SAME	

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3706KOLNP2010	India	Pending	10-Apr-09			DOPED CONJUGATED POLYMERS DEVICES AND METHODS OF MAKING THE SAME	
097302004	European Patent Office	Pending	10-Apr-09			DOPED CONJUGATED POLYMERS DEVICES AND METHODS OF MAKING THE SAME	
12996766	United States of America	Pending	7-Dec-10			SULFONATED POLYTHIOPHENES COMPRISING FUSED RING REPEAT UNITS	
097634554	European Patent Office	Pending	9-Jun-09			SULFONATED POLYTHIOPHENES COMPRISING FUSED RING REPEAT UNITS	
12482354	United States of America	Issued	10-Jun-09	8362517	Jan 29, 2013	ALUMINUM ENCAPSULATION OF OPV DEVICES	
13734837	United States of America	Pending	4-Jan-13			ALUMINUM ENCAPSULATION OF OPV DEVICES	
12543225	United States of America	Issued	18-Aug-09	8414304	Apr 9, 2013	ORGANIC LIGHT EMITTING DIODE LIGHTING DEVICES	
13850165	United States of America	Pending	25-Mar-13			ORGANIC LIGHT EMITTING DIODE LIGHTING DEVICES	
097916332	European Patent Office	Pending	18-Aug-09			ORGANIC LIGHT EMITTING DIODE LIGHTING DEVICES	
098127795	Taiwan R.O.C.	Pending	18-Aug-09			ORGANIC LIGHT EMITTING DIODE LIGHTING DEVICES	
12541500	United States of America	Pending	14-Aug-09			NON-HALOGENATED SOLVENT SYSTEM	
1020107005618	Republic of Korea	Pending	14-Aug-09			NON-HALOGENATED SOLVENT SYSTEM	
2011523885	Japan	Pending	14-Aug-09			NON-HALOGENATED SOLVENT SYSTEM	
097915235	European Patent Office	Pending	14-Aug-09			NON-HALOGENATED SOLVENT SYSTEM	
12543442	United States of America	Issued	18-Aug-09	8215787	Jul 10, 2012	ORGANIC LIGHT EMITTING DIODE PRODUCTS	
13524875	United States of America	Pending	15-Jun-12			ORGANIC LIGHT EMITTING DIODE PRODUCTS	
12543440	United States of America	Issued	18-Aug-09	8288951	Oct 16, 2012	ORGANIC LIGHT EMITTING DIODE LIGHTING SYSTEMS	
13622953	United States of America	Pending	19-Sep-12			ORGANIC LIGHT EMITTING DIODE LIGHTING SYSTEMS	
12605768	United States of America	Issued	26-Oct-09	8097876	Jan 17, 2012	CHARGE INJECTION AND TRANSPORTING LAYER COMPRISING A CONDUCTIVE POLYMER MIXED WITH A SEMICONDUCTING POLYMER FOR USE IN ELECTRONIC DEVICES	
13753262	United States of America	Pending	29-Jan-13			CHARGE INJECTION AND TRANSPORTING LAYER COMPRISING A CONDUCTIVE POLYMER MIXED WITH A SEMICONDUCTING POLYMER FOR USE IN ELECTRONIC DEVICES	
13316324	United States of America	Issued	9-Dec-11	8383454	Feb 26, 2013	CHARGE INJECTION AND TRANSPORTING LAYER COMPRISING A CONDUCTIVE POLYMER MIXED WITH A SEMICONDUCTING POLYMER FOR USE IN ELECTRONIC DEVICES	
1020117011519	Republic of Korea	Pending	26-Oct-09			CHARGE INJECTION AND TRANSPORTING LAYER COMPRISING A CONDUCTIVE POLYMER MIXED WITH A SEMICONDUCTING POLYMER FOR USE IN ELECTRONIC DEVICES	
2011533406	Japan	Pending	26-Oct-09			CHARGE INJECTION AND TRANSPORTING LAYER COMPRISING A CONDUCTIVE POLYMER MIXED WITH A SEMICONDUCTING POLYMER FOR USE IN ELECTRONIC DEVICES	
097442891	European Patent Office	Pending	26-Oct-09			CHARGE INJECTION AND TRANSPORTING LAYER COMPRISING A CONDUCTIVE POLYMER MIXED WITH A SEMICONDUCTING POLYMER FOR USE IN ELECTRONIC DEVICES	

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12606162	United States of America	Pending	26-Oct-09			POLYARYLAMINE KETONES AND ITS APPLICATIONS IN OPTOELECTRONICS DEVICES	
1020117009489	Republic of Korea	Pending	26-Oct-09			POLYARYLAMINE KETONES AND ITS APPLICATIONS IN OPTOELECTRONICS DEVICES	
2011533415	Japan	Pending	26-Oct-09			POLYARYLAMINE KETONES AND ITS APPLICATIONS IN OPTOELECTRONICS DEVICES	
097525786	European Patent Office	Pending	26-Oct-09			POLYARYLAMINE KETONES AND ITS APPLICATIONS IN OPTOELECTRONICS DEVICES	
12620514	United States of America	Issued	17-Nov-09	8283002	Oct 9, 2012	AMINO BENZENE COMPOSITIONS	
13622732	United States of America	Pending	18-Sep-12			AMINO BENZENE COMPOSITIONS	
1020117010677	Republic of Korea	Pending	17-Nov-09			AMINO BENZENE COMPOSITIONS	
2011536609	Japan	Pending	17-Nov-09			AMINO BENZENE COMPOSITIONS	
097641245	European Patent Office	Pending	17-Nov-09			AMINO BENZENE COMPOSITIONS	
12591509	United States of America	Pending	20-Nov-09			DOPED INTERFACIAL MODIFICATION LAYERS FOR STABILITY ENHANCEMENT FOR BULK HETEROJUNCTION ORGANIC SOLAR CELLS	
12652359	United States of America	Pending	5-Jan-10			OLED FOR TREATING JAUNDICE	
1020117017880	Republic of Korea	Pending	29-Jul-11			OLED FOR TREATING JAUNDICE	
2011544657	Japan	Pending	5-Jan-10			OLED FOR TREATING JAUNDICE	
107268435	European Patent Office	Pending	5-Jan-10			OLED FOR TREATING JAUNDICE	
13265523	United States of America	Pending	30-Apr-10			REPLACING AQUEOUS WITH NON-AQUEOUS SOLVENT	
1020117028618	Republic of Korea	Pending	30-Apr-10			REPLACING AQUEOUS WITH NON-AQUEOUS SOLVENT	
2012508776	Japan	Pending	30-Apr-10			REPLACING AQUEOUS WITH NON-AQUEOUS SOLVENT	
107198319	European Patent Office	Pending	30-Apr-10			REPLACING AQUEOUS WITH NON-AQUEOUS SOLVENT	
12757814	United States of America	Pending	9-Apr-10			DEHALOGENATION	
1020117026681	Republic of Korea	Pending	9-Apr-10			DEHALOGENATION	
2012504899	Japan	Pending	9-Apr-10			DEHALOGENATION	
107141418	European Patent Office	Pending	9-Apr-10			DEHALOGENATION	
12890493	United States of America	Issued	24-Sep-10	8431925	Apr 30, 2013	ORGANIC ELECTRONIC DEVICES, COMPOSITIONS, AND METHODS	Cambridge Technologies Corp.
13852939	United States of America	Pending	28-Mar-13			ORGANIC ELECTRONIC DEVICES, COMPOSITIONS, AND METHODS	Cambridge Technologies Corp.
1020127010175	Republic of Korea	Pending	24-Sep-10			ORGANIC ELECTRONIC DEVICES, COMPOSITIONS, AND METHODS	Cambridge Technologies Corp.
2012532215	Japan	Pending	24-Sep-10			ORGANIC ELECTRONIC DEVICES, COMPOSITIONS, AND METHODS	Cambridge Technologies Corp.
2012021986	Singapore	Pending	24-Sep-10			ORGANIC ELECTRONIC DEVICES, COMPOSITIONS, AND METHODS	Cambridge Technologies Corp.
2010800533970	China	Pending	24-Sep-10			ORGANIC ELECTRONIC DEVICES, COMPOSITIONS, AND METHODS	Cambridge Technologies Corp.
121094298	Hong Kong	Pending	25-Sep-12			ORGANIC ELECTRONIC DEVICES, COMPOSITIONS, AND METHODS	Cambridge Technologies Corp.
107712341	European Patent Office	Pending	24-Sep-10			ORGANIC ELECTRONIC DEVICES, COMPOSITIONS, AND METHODS	Cambridge Technologies Corp.
099132713	Taiwan R.O.C.	Pending	27-Sep-10			ORGANIC ELECTRONIC DEVICES, COMPOSITIONS, AND METHODS	Cambridge Technologies Corp.

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12828121	United States of America	Issued	30-Jun-10	8440785	May 14, 2013	NOVEL DONOR-ACCEPTOR COMPOSITIONS, METHODS, AND POLYMERS	
1020127002267	Republic of Korea	Pending	30-Jun-10			NOVEL DONOR-ACCEPTOR COMPOSITIONS, METHODS, AND POLYMERS	
2012518600	Japan	Pending	30-Jun-10			NOVEL DONOR-ACCEPTOR COMPOSITIONS, METHODS, AND POLYMERS	
107300170	European Patent Office	Pending	30-Jun-10			NOVEL DONOR-ACCEPTOR COMPOSITIONS, METHODS, AND POLYMERS	
13516213	United States of America	Pending	17-Dec-10			COPOLYMERS OF 3,4-DIALKOXYTHIOPHENES AND METHODS FOR MAKING AND DEVICES	
1020127017874	Republic of Korea	Pending	17-Dec-10			COPOLYMERS OF 3,4-DIALKOXYTHIOPHENES AND METHODS FOR MAKING AND DEVICES	
2012544894	Japan	Pending	17-Dec-10			COPOLYMERS OF 3,4-DIALKOXYTHIOPHENES AND METHODS FOR MAKING AND DEVICES	
EP107962573	European Patent Office	Pending	17-Dec-10			COPOLYMERS OF 3,4-DIALKOXYTHIOPHENES AND METHODS FOR MAKING AND DEVICES	
12543446	United States of America	Allowed	18-Aug-09			USER CONFIGURABLE MOSAIC LIGHT EMITTING APPARATUS	
098127797	Taiwan R.O.C.	Pending	18-Aug-09			USER CONFIGURABLE MOSAIC LIGHT EMITTING APPARATUS	
12874137	United States of America	Pending	1-Sep-10			ORGANIC ELECTRONIC DEVICES AND POLYMERS, INCLUDING PHOTOVOLTAIC CELLS AND DIKETOPYRROLE-BASED POLYMERS	
1020127007399	Republic of Korea	Pending	1-Sep-10			ORGANIC ELECTRONIC DEVICES AND POLYMERS, INCLUDING PHOTOVOLTAIC CELLS AND DIKETOPYRROLE-BASED POLYMERS	
2012528015	Japan	Pending	1-Sep-10			ORGANIC ELECTRONIC DEVICES AND POLYMERS, INCLUDING PHOTOVOLTAIC CELLS AND DIKETOPYRROLE-BASED POLYMERS	
107546194	European Patent Office	Pending	1-Sep-10			ORGANIC ELECTRONIC DEVICES AND POLYMERS, INCLUDING PHOTOVOLTAIC CELLS AND DIKETOPYRROLE-BASED POLYMERS	
12874163	United States of America	Pending	1-Sep-10			ORGANIC PHOTOVOLTAIC CELLS WITH DIOXOPYRROLO-BASED POLYMERS	
1020127007397	Republic of Korea	Pending	1-Sep-10			ORGANIC PHOTOVOLTAIC CELLS WITH DIOXOPYRROLO-BASED POLYMERS	
2012528014	Japan	Pending	1-Sep-10			ORGANIC PHOTOVOLTAIC CELLS WITH DIOXOPYRROLO-BASED POLYMERS	
2010800490316	China	Pending	1-Sep-10			ORGANIC PHOTOVOLTAIC CELLS WITH DIOXOPYRROLO-BASED POLYMERS	
107543845	European Patent Office	Pending	1-Sep-10			ORGANIC PHOTOVOLTAIC CELLS WITH DIOXOPYRROLO-BASED POLYMERS	
099129943	Taiwan R.O.C.	Pending	3-Sep-10			ORGANIC PHOTOVOLTAIC CELLS WITH DIOXOPYRROLO-BASED POLYMERS	
13539134	United States of America	Pending	29-Jun-12			BLOOMING HOLE TRANSPORT LAYER	
PCTUS2011063300	PCT	Pending	5-Dec-11			INKS FOR SOLAR CELL INVERTED STRUCTURES	
13104598	United States of America	Pending	10-May-11			DOPING CONJUGATED POLYMERS AND DEVICES	
1020127031717	Republic of Korea	Pending	10-May-11			DOPING CONJUGATED POLYMERS AND DEVICES	
2013510236	Japan	Pending	10-May-11			DOPING CONJUGATED POLYMERS AND DEVICES	
2011800225508	China	Pending	10-May-11			DOPING CONJUGATED POLYMERS AND DEVICES	
117206888	European Patent Office	Pending	10-May-11			DOPING CONJUGATED POLYMERS AND DEVICES	
100116358	Taiwan R.O.C.	Pending	10-May-11			DOPING CONJUGATED POLYMERS AND DEVICES	
13281023	United States of America	Pending	25-Oct-11			ORGANIC ELECTRONIC DEVICES, INCLUDING ORGANIC PHOTOVOLTAIC DEVICES, POLYMERS AND MONOMERS	

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PCTUS1157662	PCT	Pending	25-Oct-11			ORGANIC ELECTRONIC DEVICES, INCLUDING ORGANIC PHOTOVOLTAIC DEVICES, POLYMERS AND MONOMERS	
117822866	European Patent Office	Pending	25-Oct-11			ORGANIC ELECTRONIC DEVICES, INCLUDING ORGANIC PHOTOVOLTAIC DEVICES, POLYMERS AND MONOMERS	
13175710	United States of America	Pending	1-Jul-11			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
13175714	United States of America	Allowed	1-Jul-11			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
13868924	United States of America	Pending	23-Apr-13			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
PCTUS2011042861	PCT	Pending	1-Jul-11			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
1020137001889	Republic of Korea	Pending	1-Jul-11			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
1020137001890	Republic of Korea	Pending	24-Jan-13			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
base PCTUS2011042865	Japan	Pending	1-Jul-11			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
base PCT/US11/042861	Japan	Pending	1-Jul-11			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
2011800301520	China	Pending	1-Jul-11			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
base PCTUS2011042861	China	Pending	1-Jul-11			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
117433912	European Patent Office	Pending	1-Jul-11			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
117433904	European Patent Office	Pending	1-Jul-11			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
100123462	Taiwan R.O.C.	Pending	1-Jul-11			SOLUTION-PROCESSIBLE HOLE TRANSPORT MATERIALS	
13326027	United States of America	Pending	14-Dec-11			FLUORO MONOMERS, OLIGOMERS, AND POLYMERS FOR INKS AND ORGANIC DEVICES	
PCTUS1164907	PCT	Pending	14-Dec-11			FLUORO MONOMERS, OLIGOMERS, AND POLYMERS FOR INKS AND ORGANIC DEVICES	
61655419	United States of America	Pending	4-Jun-12			IMPROVED DOPING METHODS FOR HOLE INJECTION TRANSPORT	
61655419	United States of America	Pending	3-Oct-12			IMPROVED DOPING METHODS FOR HOLE INJECTION TRANSPORT	
PCTUS2012000443	PCT	Pending	3-Oct-12			IMPROVED DOPING METHODS FOR HOLE INJECTION TRANSPORT	
101136563	Taiwan R.O.C.	Pending	3-Oct-12			IMPROVED DOPING METHODS FOR HOLE INJECTION TRANSPORT	
13656561	United States of America	Pending	19-Oct-12			SYNTHESIS OF CONJUGATED POLYMERS VIA OXIDATIVE DEHYDROGENATIVE DIRECT COUPLING	
PCTUS1261179	PCT	Pending	19-Oct-12			SYNTHESIS OF CONJUGATED POLYMERS VIA OXIDATIVE DEHYDROGENATIVE DIRECT COUPLING	
13894412	United States of America	Pending	14-May-13			HOLE TRANSPORT MATERIALS INCLUDING OLED APPLICATIONS	
PCTUS1341033	PCT	Pending	14-May-13			HOLE TRANSPORT MATERIALS INCLUDING OLED APPLICATIONS	
61697738	United States of America	Pending	6-Sep-12			ELECTROLUMINESCENT DEVICES COMPRISING INSULATOR-FREE METAL GRIDS	
JPA2010248487	JP	Pending	16-Mar-10			ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	03/27/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS COMPLETE
099108270	TW	Pending	22-Mar-10			ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	03/27/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS COMPLETE
201080013023.6	China	Pending	19-Mar-10			ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	03/27/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS COMPLETE

APPLICATION NUMBER	COUNTRY	STATUS	APP'LN DATE	PATENT NUMBER	GRANT DATE	TITLE	CO-ASSIGNEE or Assignment status
201106615-6	Singapore	Pending	19-Mar-10			ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	03/27/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS COMPLETE
US13/259117	USA	Pending	19-Mar-10			ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	03/27/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS COMPLETE
2011-7024875	Korea	Pending	19-Mar-10			ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	03/27/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS COMPLETE
20100755997	EPO	Pending	19-Mar-10			ELECTROCONDUCTIVE COATING COMPOSITION AND PROCESS FOR PRODUCTION OF ELECTROCONDUCTIVE COATING FILM	03/27/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS COMPLETE
099109282	Taiwan	Pending	29-Mar-10			BINDER FOR POSITIVE ELECTRODE OF LITHIUM ION SECONDARY BATTERY, AND POSITIVE ELECTRODE MATERIAL	03/27/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS COMPLETE
JP20100069516	JP	Pending	25-Mar-10			BINDER FOR POSITIVE ELECTRODE OF LITHIUM ION SECONDARY BATTERY, AND POSITIVE ELECTRODE MATERIAL	03/27/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS COMPLETE
100137284	TW	Pending	14-Jan-11			Conductive composition and method for producing conductive coating film	03/27/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS COMPLETE
PCT/JP2012/050484	PCT	Pending	12-Jan-12			ADDITIVE FOR POSITIVE ELECTRODES OF LITHIUM SECONDARY BATTERIES, AND POSITIVE ELECTRODE FOR LITHIUM SECONDARY BATTERIES	03/27/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS COMPLETE
JP2011-121549	JP	Pending	24-May-12			固体電解コンデンサ用導電性高分子 (Conductive Polymer for PolyCap)	04/25/2013 ASSIGNMENT FROM SANYO TO PLEXTRONICS