

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>MICHAEL F. BARKER</td><td>12/07/2007</td></tr><tr><td>HISASHI MATSUNO</td><td>12/07/2007</td></tr><tr><td>KEIICHIRO HAYAKAWA</td><td>12/07/2007</td></tr><tr><td>HIROAKI NODA</td><td>12/12/2007</td></tr></tbody></table>	Name	Execution Date	MICHAEL F. BARKER	12/07/2007	HISASHI MATSUNO	12/07/2007	KEIICHIRO HAYAKAWA	12/07/2007	HIROAKI NODA	12/12/2007	
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RECEIVING PARTY DATA											
Name:	E. I. DU PONT DE NEMOURS AND COMPANY										
Street Address:	1007 MARKET STREET										
Internal Address:	LEGAL-PATENTS										
City:	WILMINGTON										
State/Country:	DELAWARE										
Postal Code:	19898										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11369549</td></tr></tbody></table>	Property Type	Number	Application Number:	11369549							
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Application Number:	11369549										
CORRESPONDENCE DATA											
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PATENT
REEL: 020407 FRAME: 0082

ASSIGNMENT

We, the undersigned

**MICHAEL F. BARKER, KEIICHIRO HAYAKAWA,
HISASHI MATSUNO, HIROAKI NODA**

Hereby declare that

We are the true and first inventors of an invention entitled

**BLACK CONDUCTIVE THICK FILM COMPOSITIONS, BLACK ELECTRODES,
AND METHODS OF FORMING THEREOF**

and which is disclosed in United States Patent Application No. 11/369549 filed on March 07, 2006 (and which is identified as Case Number EL0599USNA).

For valuable consideration, the receipt and adequacy of which is hereby acknowledged and in fulfillment of our pre-existing obligation of assignment, we hereby:

I. Sell, assign, and transfer unto **E. I. DU PONT DE NEMOURS AND COMPANY**, a corporation organized and existing under the laws of State of Delaware in the United States of America and having its principal place of business at Wilmington, Delaware, hereinafter referred to as the assignee, (A) the sole and entire right, title, and interest in and to: (1) the aforesaid application for Letters Patent, (2) any priority rights derived from the aforesaid application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property and any other treaty or understanding for intellectual property for any and all member countries of the aforesaid International Convention or other treaty or understanding, (3) any and all our inventions, whether joint or sole, disclosed in the aforesaid application for Letters Patent, (4) any and all applications for Letters Patent for any such inventions in any country whatsoever, (5) any and all patents for any such inventions in any country whatsoever; and (B) the sole right to (1) file such applications in its name or ours, (2) to file such applications under the aforesaid International Convention or other treaty or understanding, (3) have said patents granted in its name or ours, and (4) enforce said patents and to sue for and recover profits and damages for any and all infringements thereof whether past or future; and

II. Agree, whenever requested, to communicate to said assignee, its successors, assigns, and legal representatives, any facts known to us respecting said rights, to testify in any legal proceeding respecting said rights, to execute all applications, papers or instruments necessary or required by said assignee, its successors, assigns and legal representatives to carry into effect any of the provisions of this instrument, and generally to do everything possible to aid said assignee, its successors, assigns, and legal representatives to obtain and enforce proper patent protection for said inventions in any and all countries.

m f Barker (L.S.)
MICHAEL F. BARKER
DATE: 12/7/2007

Keiichi Hayakawa (L.S.)
KEIICHIRO HAYAKAWA
DATE: 12/7/2007

Hisashi Matsuno (L.S.)
HISASHI MATSUNO
DATE: 12/7/2007

Hiroaki Noda (L.S.)
HIROAKI NODA
DATE: 12/12/2007