

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>ALAN FREDERICK CARROLL</td> <td>05/10/2011</td> </tr> <tr> <td>KENNETH WARREN HANG</td> <td>05/10/2011</td> </tr> <tr> <td>BRIAN J. LAUGHLIN</td> <td>05/10/2011</td> </tr> <tr> <td>KURT RICHARD MIKESKA</td> <td>05/10/2011</td> </tr> <tr> <td>CARMINE TORARDI</td> <td>05/13/2011</td> </tr> <tr> <td>PAUL DOUGLAS VERNOOY</td> <td>05/12/2011</td> </tr> </tbody> </table>		Name	Execution Date	ALAN FREDERICK CARROLL	05/10/2011	KENNETH WARREN HANG	05/10/2011	BRIAN J. LAUGHLIN	05/10/2011	KURT RICHARD MIKESKA	05/10/2011	CARMINE TORARDI	05/13/2011	PAUL DOUGLAS VERNOOY	05/12/2011
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RECEIVING PARTY DATA															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>E. I. DU PONT DE NEMOURS AND COMPANY</td> </tr> <tr> <td>Street Address:</td> <td>4417 LANCASTER PIKE</td> </tr> <tr> <td>Internal Address:</td> <td>BARLEY MILL PLAZA 25</td> </tr> <tr> <td>City:</td> <td>WILMINGTON</td> </tr> <tr> <td>State/Country:</td> <td>DELAWARE</td> </tr> <tr> <td>Postal Code:</td> <td>19809</td> </tr> </table>		Name:	E. I. DU PONT DE NEMOURS AND COMPANY	Street Address:	4417 LANCASTER PIKE	Internal Address:	BARLEY MILL PLAZA 25	City:	WILMINGTON	State/Country:	DELAWARE	Postal Code:	19809		
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CORRESPONDENCE DATA															
<p>Fax Number: (302)355-3982 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 302-992-2973 Email: CAROL.A.REEDER@USA.DUPONT.COM Correspondent Name: SHERRY M. CARTY Address Line 1: 4417 LANCASTER PIKE Address Line 2: BARLEY MILL PLAZA 25 Address Line 4: WILMINGTON, DELAWARE 19809</p>															
ATTORNEY DOCKET NUMBER:	EL0985USNA														

CH \$40.00 13100550

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PATENT
REEL: 026315 FRAME: 0842

NAME OF SUBMITTER:

CAROL REEDER

Total Attachments: 5

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PATENT

REEL: 026315 FRAME: 0843

ASSIGNMENT

We, the undersigned

ALAN FREDERICK CARROLL, KENNETH WARREN HANG, BRIAN J. LAUGHLIN,
KURT RICHARD MIKESKA, CARMINE TORARDI, PAUL DOUGLAS VERNOOY

Hereby declare that

We are the true and first inventors of an invention entitled

THICK-FILM PASTES CONTAINING LEAD-TELLURIUM-BORON-OXIDES, AND THEIR USE IN THE
MANUFACTURE OF SEMICONDUCTOR DEVICES

which is disclosed in the United States Patent Application No. 13/100,550 filed on May 4, 2011 and
which is identified as Case Number EL0985USNA.

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 the 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) 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.

Alan Frederick Carroll (L.S.)

ALAN FREDERICK CARROLL

DATE: May 10, 2011

(L.S.)

KURT RICHARD MIKESKA

DATE: _____

(L.S.)

KENNETH WARREN HANG

DATE: _____

(L.S.)

CARMINE TORARDI

DATE: _____

(L.S.)

BRIAN J. LAUGHLIN

DATE: _____

(L.S.)

PAUL DOUGLAS VERNOOY

DATE: _____

PATENT

REEL: 026315 FRAME: 0844

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_____(L.S.)

ALAN FREDERICK CARROLL

DATE: _____

_____(L.S.)

KURT RICHARD MIKESKA

DATE: _____

Kenneth Warren Hang (L.S.)

KENNETH WARREN HANG

DATE: *May 10, 2011*

_____(L.S.)

CARMINE TORARDI

DATE: _____

Brian J. Laughlin (L.S.)

BRIAN J. LAUGHLIN

DATE: *May 10, 2011*

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PAUL DOUGLAS VERNOOY

DATE: _____

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KURT RICHARD MIKESKA (L.S.)
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DATE: _____

CARMINE TORARDI (L.S.)
DATE: _____

BRIAN J. LAUGHLIN (L.S.)
DATE: _____

PAUL DOUGLAS VERNOOY (L.S.)
DATE: _____

PATENT

REEL: 026315 FRAME: 0846

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Carmine Torardi
CARMINE TORARDI
DATE: May 13, 2011

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