

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ALAN FREDERICK CARROLL	05/10/2011
KENNETH WARREN HANG	05/10/2011
BRIAN J. LAUGHLIN	05/10/2011
KURT RICHARD MIKESKA	05/17/2011
CARMINE TORARDI	05/13/2011
PAUL DOUGLAS VERNOOY	05/12/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	E. I. DU PONT DE NEMOURS AND COMPANY
<b>Street Address:</b>	4417 LANCASTER PIKE
<b>Internal Address:</b>	BARLEY MILL PLAZA 25
<b>City:</b>	WILMINGTON
<b>State/Country:</b>	DELAWARE
<b>Postal Code:</b>	19809
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13100533
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(302)355-3982
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	302-992-2973
<b>Email:</b>	CAROL.A.REEDER@USA.DUPONT.COM
<b>Correspondent Name:</b>	SHERRY M. CARTY
<b>Address Line 1:</b>	4417 LANCASTER PIKE
<b>Address Line 2:</b>	BARLEY MILL PLAZA 25
<b>Address Line 4:</b>	WILMINGTON, DELAWARE 19809
<b>ATTORNEY DOCKET NUMBER:</b>	CL5006USNA

CH \$40.00 13100533

**501540037**

**PATENT**  
**REEL: 026321 FRAME: 0559**

NAME OF SUBMITTER:

CAROL REEDER

**Total Attachments: 5**

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## 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- AND TELLURIUM-OXIDES, AND THEIR USE IN THE  
MANUFACTURE OF SEMICONDUCTOR DEVICES

which is disclosed in the United States Patent Application No. 13/100,533 filed on May 4, 2011 and which is identified as Case Number CL5006USNA.

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.)

KENNETH WARREN HANG

DATE: \_\_\_\_\_

\_\_\_\_\_ (L.S.)

BRIAN J. LAUGHLIN

DATE: \_\_\_\_\_

\_\_\_\_\_ (L.S.)

KURT RICHARD MIKESKA

DATE: \_\_\_\_\_

\_\_\_\_\_ (L.S.)

CARMINE TORARDI

DATE: \_\_\_\_\_

\_\_\_\_\_ (L.S.)

PAUL DOUGLAS VERNOOY

DATE: \_\_\_\_\_

PATENT

REEL: 026321 FRAME: 0561

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enforce proper patent protection for said inventions in any and all countries.

\_\_\_\_\_(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*

\_\_\_\_\_(L.S.)  
PAUL DOUGLAS VERNOOY  
DATE: \_\_\_\_\_

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\_\_\_\_\_(L.S.)  
ALAN FREDERICK CARROLL  
DATE: \_\_\_\_\_

  
\_\_\_\_\_(L.S.)  
KURT RICHARD MIKESKA  
DATE: 5/17/11

\_\_\_\_\_(L.S.)  
KENNETH WARREN HANG  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
CARMINE TORARDI  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
BRIAN J. LAUGHLIN  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
PAUL DOUGLAS VERNOOY  
DATE: \_\_\_\_\_

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\_\_\_\_\_(L.S.)  
ALAN FREDERICK CARROLL  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
KURT RICHARD MIKESKA  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
KENNETH WARREN HANG  
DATE: \_\_\_\_\_

*Carmine Torardi*  
\_\_\_\_\_(L.S.)  
CARMINE TORARDI  
DATE: *May 13, 2011*

\_\_\_\_\_(L.S.)  
BRIAN J. LAUGHLIN  
DATE: \_\_\_\_\_

\_\_\_\_\_(L.S.)  
PAUL DOUGLAS VERNOOY  
DATE: \_\_\_\_\_

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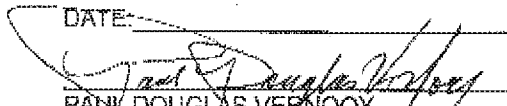
\_\_\_\_\_(L.S.)  
ALAN FREDERICK CARROLL  
DATE: \_\_\_\_\_

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DATE: \_\_\_\_\_

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\_\_\_\_\_(L.S.)  
PAUL DOUGLAS VERNOOY  
DATE: 5/12/11

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