503171648 02/09/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3218264

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| CARMINE TORARDI | 12/16/2014 |
| PAUL DOUGLAS VERNOOY | 12/17/2014 |

RECEIVING PARTY DATA

| Name: | E. I. DU PONT DE NEMOURS AND COMPANY | |
|-----------------|--------------------------------------|--|
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| City: | WILMINGTON | |
| State/Country: | DELAWARE | |
| Postal Code: | 19898 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number | |
|---------------------|----------|--|
| Application Number: | 14552637 | |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | CL5708-US-NP |
|-------------------------|-----------------|
| NAME OF SUBMITTER: | JACKIE O'NEIL |
| SIGNATURE: | /Jackie O'Neil/ |
| DATE SIGNED: | 02/09/2015 |

Total Attachments: 2

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PATENT 503171648 REEL: 034920 FRAME: 0688

NON-PROVISIONAL APPLICATION ASSIGNMENT

We, the undersigned

CARMINE TORARDI, PAUL DOUGLAS VERNOOY

Hereby declare that

We are the inventors of an invention entitled

CONDUCTIVE PASTE COMPOSITION AND SEMICONDUCTOR DEVICES MADE THEREWITH

which is disclosed in the United States Patent Application No. 14/552637 filed on November 25, 2014 and which is identified as Case Number CL5708-US-NP.

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 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 inventions or the rights described above, to testify in any legal proceeding respecting said inventions or the rights described above, the location of that testimony to be in the country in which we reside or in the nearest country in which such testimony is legal should our country of residence prohibit such testimony, 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.

| builde (L.S.) | | (L.S.) |
|------------------------|----------------------|--------|
| TARMINE TORARDH , , | PAUL DOUGLAS VERNOOY | |
| DATE: December 16,2014 | DATE: | |

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- II. Agree, whenever requested, to communicate to said assignee, its successors, assigns, and legal representatives, any facts known to us respecting said inventions or the rights described above, to testify in any legal proceeding respecting said inventions or the rights described above, the location of that testimony to be in the country in which we reside or in the nearest country in which such testimony is legal should our country of residence prohibit such testimony, 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.

| (| (L.S.) | (act faciales //)out (L.S.) |
|--------------------------|--------|---|
| CARMINE TORARDI DATE: | | PAULIDOUGLAS VERMOOY / / DATE: /3//7/14 |

PATENT REEL: 034920 FRAME: 0690

RECORDED: 02/09/2015