

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Ben E. Cruz | 06/14/2010 |
| George E. Graddy Jr. | 06/14/2010 |
| Aziz S. Shaikh | 06/14/2010 |
| RECEIVING PARTY DATA | |
| Name: | Ferro Corporation |
| Street Address: | 1000 Lakeside Avenue |
| City: | Cleveland |
| State/Country: | OHIO |
| Postal Code: | 44114 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 12682040 |
| CORRESPONDENCE DATA | |
| Fax Number: | (216)566-9711 |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | |
| Phone: | 440-953-3210 |
| Email: | kallay@rankinhill.com |
| Correspondent Name: | Kenneth A. Clark |
| Address Line 1: | 23755 Lorain Road, Suite 200 |
| Address Line 4: | North Olmsted, OHIO 44070 |
| ATTORNEY DOCKET NUMBER: | FER-17473.001 |
| NAME OF SUBMITTER: | Kenneth A. Clark |
| Total Attachments: 2 source=fer17473assign#page1.tif source=fer17473assign#page2.tif | |

CH \$40.00 12682040

501256136

PATENT
 REEL: 024806 FRAME: 0332

ASSIGNMENT

For good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, we the undersigned, Ben E. Cruz, George E. Graddy, Jr., Aziz S. Shaikh and Jalal Salami, hereby sell and assign to Ferro Corporation, a corporation of the State of Ohio, having a place of business at 1000 Lakeside Avenue, Cleveland, Ohio 44114, its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions in

Dielectric Coating For Single Sided Back Contact Solar Cells

set forth in application for United States Letters Patent filed 8 April 2010, Serial No. 12/682040 said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extension of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

Attested by:

Signed:

Dated:

X

Ben E. Cruz

6/14/10

X

George E. Graddy, Jr.

6/14/10

X

Aziz S. Shaikh

6/14/10

X

Jalal Salami

STATE OF CALIFORNIA

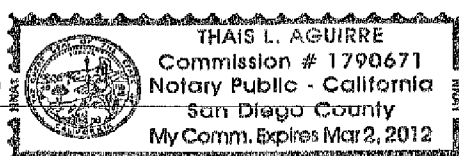
COUNTY OF San Diego

SS.

Before me personally appeared the above-named Ben E. Cruz who acknowledged the execution of the foregoing instrument as his free act and deed.

Date

6/14/2010



Notary Public

Thais L. Aguirre

PATENT

REEL: 024806 FRAME: 0333

STATE OF CALIFORNIA

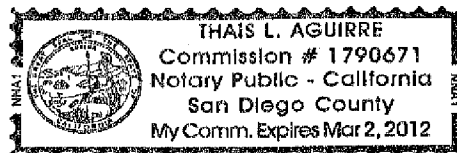
COUNTY OF San Diego

SS.

Before me personally appeared the above-named George E. Graddy, Jr. who acknowledged the execution of the foregoing instrument as his free act and deed.

6/14/2010
Date

Thais L. Aguirre
Notary Public



STATE OF CALIFORNIA

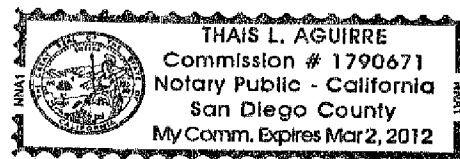
COUNTY OF San Diego

SS.

Before me personally appeared the above-named Aziz S. Shaikh who acknowledged the execution of the foregoing instrument as his free act and deed.

6/14/2010
Date

Thais L. Aguirre
Notary Public



STATE OF CALIFORNIA

COUNTY OF _____

SS.

Before me personally appeared the above-named Jalal Salami who acknowledged the execution of the foregoing instrument as his free act and deed.

Date

Notary Public