PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	JBMISSION TYPE:		NEW ASSIGNMENT					
NATURE OF CONVEYANCE:			ASSIGNMENT					
CONVEYING PARTY DATA								
		N	lame	Execution Date				
Srinivasan Sridharan				07/21/2005				
Tung Pham				07/28/2005				
Chandrashekhar S. Khadilkar				07/21/2005				
Aziz S. Shaikh				07/28/2005				
Steve S. Kim				07/28/2005				
RECEIVING PARTY DATA								
Name:	Ferro Corporation							
Street Address:	1000 Lakeside	Avenu	9					
City:	Cleveland	Cleveland						
State/Country:	ОНЮ							
Postal Code:	44114							
PROPERTY NUMBERS Total: 1								
Property Type			Number					
Application Number: 1331		13313	133					
CORRESPONDENCE DATA								
Fax Number:	(216)566	-9711						
Phone:	216-566-9700							
Email: kallay@rankinhill.com								
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.								
Correspondent Name: Kenneth A. Clark								
Address Line 1: 23755 Lorain Road - Suite 200								
Address Line 4:	North Olr	msted, (DHIO 44070-2224					
ATTORNEY DOCKET NUMBER:			FER-16112.02					
NAME OF SUBMITTER:								
NAME OF SUBMITTER:			Kenneth A. Clark					

Assignment

For good and valuable consideration received of the hereinafter named assignees, receipt of which is hereby acknowledged, we the undersigned, Srinivasan Sridharan, Tung Pham, Chandrashekhar S. Khadilkar, Aziz S. Shaikh and Steve S. Kim, 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, U.S.A., 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

LEAD FREE SOLAR CELL CONTACTS

set forth in application for United States Letters Patent filed 3 June 2005, Serial No. 11/145538, 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 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: vasan Sridharar

Aziz S. Shaikh

Kim Steve S.

Date:

E: 0876

State of Ohio

County of Cuyahoga

SS.

Before me personally appeared the above named Srinivasan Sridharan who acknowledged the execution of the foregoing

instrument as his free act and deed.

21/2005

Notary Public

State of California .	:	
San Dian	:	SS.
County of San DLOW		

Before me personally appeared the above named Tung Pham who acknowledged the execution of the foregoing

instrument as his free act and deed.

Date MEGAN AGUIRRE COMM. #1434755 NOTARY PUBLIC-CALIFORNIA SAN DIEGO COUNTY My Comm. Expires August 12, 2007 BCT တ

State of Ohio		:	
		:	SS.
County of Cuyahoga		:	

Before me personally appeared the above named Chandrashekhar S. Khadilkar who acknowledged the execution of the

foregoing instrument as his free act and deed.

1/21/2005 Date

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Notary Public

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PEOLA WARREN NOTARY PUBLIC STATE OF OHIO MY COMM. EXP. 3-18-08

State of California SS. County of 2

Before me personally appeared the above named Aziz S. Shaikh who acknowledged the execution of the foregoing

instrument as his free act and deed.

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Date MEGAN AGUIRRE COMM. #1434755 NOTARY PUBLIC-CALIFORNIA SAN DIEGO COUNTY My Comm. Expires August 12, 2007 BCT တ္န

State of California SS. County of **S**

Before me personally appeared the above named Steve S. Kim who acknowledged the execution of the foregoing

B C

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instrument as his free act and deed.

Date MEGAN AGUIRRE COMM. #1434755 NOTARY PUBLIC-CALIFORNIA SAN DIEGO COUNTY My Comm. Expires August 12, 2007

RECORDED: 02/21/2012