

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the US application serial number under which the Assignment was previously recorded on Reel 026589 Frame 0086. Assignor (s) hereby confirms the Assignment should have been recorded on US Application No. 12/746,558, as noted on the Assignment Document.

**CONVEYING PARTY DATA**

Name	Execution Date
SK Innovation Co., Ltd.	05/13/2011

**RECEIVING PARTY DATA**

<b>Name:</b>	SK Global Chemical Co., Ltd. (fifty percent owner)
<b>Street Address:</b>	99, Seorin-dong, Jongro-gu
<b>City:</b>	Seoul
<b>State/Country:</b>	REPUBLIC OF KOREA
<b>Postal Code:</b>	110-110

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<b>Postal Code:</b>	110-110

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	12746558

**CORRESPONDENCE DATA**

Fax Number: (215)656-2498  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
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 Email: pto.phil@dlapiper.com  
 Correspondent Name: Paul A. Taufer  
 Address Line 1: 1650 Market Street, Suite 4900  
 Address Line 2: One Liberty Place

CH \$40.00 12746558

Address Line 4: Philadelphia, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:

LEE-09-1220

NAME OF SUBMITTER:

Nancy Nunez

Total Attachments: 9

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PATENT ASSIGNMENT

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07/14/2011  
 501594249

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

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Property Type	Number
Application Number:	12526110

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 Phone: 215-656-3385  
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 Correspondent Name: Paul A. Tauffer, DLA PIPER LLP (US)  
 Address Line 1: 1650 Market Street, Suite 4900  
 Address Line 2: One Liberty Place  
 Address Line 4: Philadelphia, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:	LEE-09-1220
NAME OF SUBMITTER:	Nancy Nunez

Total Attachments: 1  
 source=NewAssignment#page1.tif

CH \$40.00 12526110

ASSIGNMENT

WHEREAS, SK Innovation Co., Ltd. of 99 Seorin-dong, Jongro-gu, Seoul 110-110, Republic of Korea, hereinafter referred to as the "Undersigned", is the owner of an invention entitled MIXED MANGANESE FERRITE CATALYSTS, METHOD OF PREPARING THEREOF AND METHOD OF PREPARING 1,3-BUTADIENE USING THEREOF by virtue of an Assignment recorded at the US Patent and Trademark Office at Reel 024493, Frame 0090, and subsequent change of name recorded July 13, 2011 at Reel 026583, Frame 0336, said invention being described and claimed in US Patent Application Serial No. 12/746,558, filed June 7, 2010; and

WHEREAS, SK Global Chemical Co., Ltd. of 99, Seorin-dong, Jongro-gu, Seoul 110-110, Republic of Korea, hereinafter referred to as the "ASSIGNEE", is desirous of acquiring one-half (fifty percent) of the entire right, title and interest in said invention, said application and all letters patent issuing for said invention,

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and of other good and valuable consideration, receipt of which is hereby acknowledged, the undersigned, intending to be legally bound, does hereby sell, assign and transfer to the assignee one-half (fifty percent) of the entire right, title and interest, for the United States of America, its territories and possessions, in said invention, including said patent application, all divisions and continuations thereof, all rights to claim priority based thereon, and all U.S. Letters Patent and reissues thereof, issuing for said invention in the United States of America.

The rights and property herein conveyed by the Undersigned are free and clear of any encumbrance.

EXECUTED on the set date set forth below.

SK INNOVATION CO., LTD.

Date: May 18, 2011

By: LEE DON

Title: General Manager

O:PAUL A. TAUFER COMPANY:DLA PIPER LLP (US)

NO. 764 F. 4  
 JUL 19 2011 10:26AM 'DLA PIPER'  
 O:PAUL A. TAUFER, DLA PIPER LLP (US) COMPANY:1650 MARKET STREET, SUITE 4800

07/19/2011  
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NAME OF SUBMITTER:	Nancy Nunez										
Total Attachments: 1 source=NewAssignment#page1.rtf											

TO: PAUL A. TAUFER COMPANY: DLA PIPER LLP (US)

JUL 19, 2011 10:26AM

DLA PIPER

NO. 764 P. 5

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WHEREAS, SK Innovation Co., Ltd. of 99 Seorin-dong, Jongro-gu, Seoul 110-110, Republic of Korea, hereinafter referred to as the "Undersigned", is the owner of an invention entitled MIXED MANGANESE FERRITE CATALYSTS, METHOD OF PREPARING THEREOF AND METHOD OF PREPARING 1,3-BUTADIENE USING THEREOF by virtue of an Assignment recorded at the US Patent and Trademark Office at Reel 024493, Frame 0090, and subsequent change of name recorded July 13, 2011 at Reel 026583, Frame 0336, said invention being described and claimed in US Patent Application Serial No. 12/746,558, filed June 7, 2010; and

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EXECUTED on the set date set forth below.

SK INNOVATION CO., LTD.

Date: May 13, 2011By: LEE DONTitle: General Manager

EASTW4459843.1