

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
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CORRESPONDENCE DATA																	
Fax Number:	(877)769-7945																
Phone:	(617) 542-5070																
Email:	zhang@fr.com																

CH \$40.00 13415390

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*

Correspondent Name: Tony Zhang  
Address Line 1: FISH & RICHARDSON P.C.  
Address Line 2: P.O.BOX 1022  
Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022

ATTORNEY DOCKET NUMBER:	23010-0146001
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NAME OF SUBMITTER:	Melvin Smith
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**ASSIGNMENT**

For valuable consideration, we, Tomonori Takahashi of Shizuoka, Japan, Tadashi Inaba of Shizuoka, Japan, Atsushi Mizutani of Shizuoka, Japan, Kazutaka Takahashi of Shizuoka, Japan, and Tetsuya Kamimura of Shizuoka, Japan hereby assign to Fujifilm Corporation, a corporation of Japan having a place of business at: 26-30, Nishiazabu 2-chome, Minato-ku, Tokyo, 1060031; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us entitled NOVEL ETCHING COMPOSITION, filed March 8, 2012, and assigned U.S. Serial Number 13/415,390, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: Mar. 27<sup>th</sup> 2012

Tomonori Takahashi  
TOMONORI TAKAHASHI

Witnessed by:

Name: [Signature]

Date: 3/27/12

Name: John W. Phillips

Date: 3/27/2012

Date: 4/5/2012

Tadashi Inaba  
TADASHI INABA

Witnessed by:

Name: Takahiro Watanabe

Date: 4/5/2012

Name: Satoshi Tomihata

Date: 4/5/2012

Date: 4/10/2012

Atsushi Mizutani  
ATSUSHI MIZUTANI

Witnessed by:

Name: Takahiro Watanabe

Date: 4/10/2012

Name: Satoshi Tomihata

Date: 4/10/2012

Date: 4/5/2012

Kazutaka Takahashi  
KAZUTAKA TAKAHASHI

Witnessed by:

Name: Takahiro Watanabe

Date: 4/5/2012

Name: Satoshi Tomihata

Date: 4/5/2012

Date: 4 / 5 / 2012

Tetsuya Kamimura  
TETSUYA KAMIMURA

Witnessed by:

Name: Takahiro Watanabe

Date: 4/5/2012

Name: Satoru Zembu


Date: 4/5/2012

ASSIGNMENT

For valuable consideration, we, Bing Du of Gilbert, AZ and William A. Wojtczak of Austin, TX hereby assign to Fujifilm Electronic Materials U.S.A., Inc., a corporation of Delaware having a place of business at: 80 Circuit Drive, North Kingstown, RI 02852; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us entitled NOVEL ETCHING COMPOSITION, filed March 8, 2012, and assigned U.S. Serial Number 13/415,390, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: 03/27/2012  
BING DU

Witnessed by:

Name: JAMES HAWWOOD Date: 3/27/2012Name: Tom DeryDate: 3/27/12

Date: 3 / 26 / 2012

William A. Wojtczak  
WILLIAM A. WOJTCZAK

Witnessed by:

Name: Thomas Dory

Date: March 26, 2012

Name: Paul J. Inman

Date: 3/26/2012