

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2974819

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the EXECUTION DATE FOR FLAVIEN HIRIGOYEN FROM 02/28/2011 TO READ 02/28/2012 previously recorded on Reel 028065 Frame 0979. Assignor(s) hereby confirms the ASSIGNMENT OF THE ENTIRE INTEREST, RIGHT, TITLE AND INTEREST.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FLAVIEN HIRIGOYEN	02/28/2012
AXEL CROCHERIE	03/05/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	STMICROELECTRONICS SA
<b>Street Address:</b>	29, BOULEVARD ROMAIN ROLLAND
<b>City:</b>	MONTRouGE
<b>State/Country:</b>	FRANCE
<b>Postal Code:</b>	92120
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	13449454
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(206)682-6031
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	206-622-4900
<b>Email:</b>	laurah@seedip.com
<b>Correspondent Name:</b>	KAREN M. HENCKEL
<b>Address Line 1:</b>	701 FIFTH AVENUE, SUITE 5400
<b>Address Line 4:</b>	SEATTLE, WASHINGTON 98104
<b>ATTORNEY DOCKET NUMBER:</b>	813063.424
<b>NAME OF SUBMITTER:</b>	KAREN M. HENCKEL
<b>SIGNATURE:</b>	/Karen M. Henckel/
<b>DATE SIGNED:</b>	08/08/2014
<b>Total Attachments: 4</b>	
source=424_ASSIGN#page1.tif	
source=424_ASSIGN#page2.tif	

source=424\_ASSIGN#page3.tif

source=424\_ASSIGN#page4.tif

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Flavien Hirigoyen</td><td>02/28/2011</td></tr><tr><td>Axel Crocherie</td><td>03/05/2012</td></tr></tbody></table>		Name	Execution Date	Flavien Hirigoyen	02/28/2011	Axel Crocherie	03/05/2012
Name	Execution Date						
Flavien Hirigoyen	02/28/2011						
Axel Crocherie	03/05/2012						
RECEIVING PARTY DATA							
Name:	STMicroelectronics S.A.						
Street Address:	29, Boulevard Romain Rolland						
City:	Montrouge						
State/Country:	FRANCE						
Postal Code:	92120						
PROPERTY NUMBERS Total: 1							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13449454</td></tr></tbody></table>		Property Type	Number	Application Number:	13449454		
Property Type	Number						
Application Number:	13449454						
CORRESPONDENCE DATA							
Fax Number:	(617)646-8646						
Phone:	617-646-8000						
Email:	gdriscoll@wolfgreenfield.com						
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>							
Correspondent Name:	James H. Morris						
Address Line 1:	Wolf, Greenfield & Sacks, P.C.						
Address Line 2:	600 Atlantic Avenue						
Address Line 4:	Boston, MASSACHUSETTS 02210						
ATTORNEY DOCKET NUMBER:	S1022.71686US00						
NAME OF SUBMITTER:	Gail Driscoll						
Total Attachments: 1 source=13449454#page1.tif							

Serial No. 13/449,454  
Filed: April 18, 2012

Attorney's Docket No. S1022.71686US00

### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned hereby:

Sell, assign and transfer to STMicroelectronics S.A., a French corporation having a place of business at 29, Boulevard Romain Rolland, 92120 Montrouge, France, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent executed on even date herewith and entitled ELEMENTARY IMAGE ACQUISITION OR DISPLAY DEVICE, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

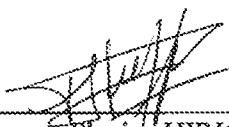
Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

The undersigned hereby grant(s) the firm of Wolf, Greenfield & Sacks, P.C., of 600 Atlantic Avenue, Boston, Massachusetts 02210 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent office for recordation of this document.

Dated: 02/28/2012

Signature   
Printed Name: Flavien HIRIGOYEN

Dated: 03/05/2012

Signature   
Printed Name: Axel CROCHERIE

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Flavien Hirigoyen	02/28/2011
Axel Crocherie	03/05/2012
RECEIVING PARTY DATA	
Name:	STMicroelectronics S.A.
Street Address:	29, Boulevard Romain Rolland
City:	Montrouge
State/Country:	FRANCE
Postal Code:	92120
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13449454
CORRESPONDENCE DATA	
Fax Number:	(617)646-8646
Phone:	617-646-8000
Email:	gdriscoll@wolfgreenfield.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	James H. Morris
Address Line 1:	Wolf, Greenfield & Sacks, P.C.
Address Line 2:	600 Atlantic Avenue
Address Line 4:	Boston, MASSACHUSETTS 02210
ATTORNEY DOCKET NUMBER:	S1022.71686US00
NAME OF SUBMITTER:	Gail Driscoll
Total Attachments: 1 source=13449454#page1.tif	

OP \$40.00 13449454

PATENT

RECORDED: 08/08/2014

REEL: 033501 FRAME: 0247