

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2684390

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>TSUNG-HSING YU</td> <td>11/22/2013</td> </tr> <tr> <td>SHIH-SYUAN HUANG</td> <td>11/22/2013</td> </tr> <tr> <td>KEN-ICHI GOTO</td> <td>11/22/2013</td> </tr> <tr> <td>YI-MING SHEU</td> <td>11/22/2013</td> </tr> </tbody> </table>		Name	Execution Date	TSUNG-HSING YU	11/22/2013	SHIH-SYUAN HUANG	11/22/2013	KEN-ICHI GOTO	11/22/2013	YI-MING SHEU	11/22/2013
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TSUNG-HSING YU	11/22/2013										
SHIH-SYUAN HUANG	11/22/2013										
KEN-ICHI GOTO	11/22/2013										
YI-MING SHEU	11/22/2013										
RECEIVING PARTY DATA											
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.										
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Internal Address:	HSIN-CHU SCIENCE PARK										
City:	HSIN-CHU										
State/Country:	TAIWAN										
Postal Code:	300-77										
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>14156496</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14156496						
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Application Number:	14156496										
CORRESPONDENCE DATA											
Fax Number:	(216)502-0601										
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ATTORNEY DOCKET NUMBER:	TSMCP359US										
NAME OF SUBMITTER:	THOMAS G. ESCHWEILER										

PATENT

Signature:	/Thomas G. Eschweiler/
Date:	01/16/2014
Total Attachments: 6 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif	

U.S. Patent Appln. No.

Filing Date

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

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AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled
"AN EPITAXIAL CHANNEL WITH A COUNTER-HALO IMPLANT TO IMPROVE ANALOG
GAIN" for which:

a non-provisional application for United States Letters Patent:

U.S. Patent Appl. No.
Filing Date

Docket No. TSMCP359US

was executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney); or

was filed on _____ and accorded U.S. Serial No. _____; or

I hereby authorize and request my attorney associated with Customer No. 107476, to insert on the designated lines below the filing date and application number of said application when known:

U.S. Serial No. _____,

filed on _____.

WHEREAS, ASSIGNEE (listed above), a corporation of the Republic of China is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said invention and improvements, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors

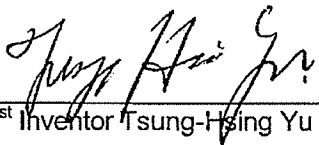
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Filing Date

and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

✓ 11/22/2013
Date

✓ 
Name 1st Inventor Tsung-Hsing Yu

U.S. Patent Appln. No.

Filing Date

✓ 1/22 2013
Date

✓ Shih Syuan Huang
Name 2nd Inventor Shih-Syuan Huang

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Filing Date

TSMC Docket No. TSMC2013-1079
Docket No. TSMCP359US

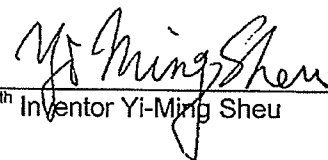
✓ 2013, 11, 22
Date

✓ K Goto
Name 3rd Inventor Ken-Ichi Goto

U.S. Patent Appln. No.
Filing Date

TSMC Docket No. TSMC2013-1079
Docket No. TSMCP359US

✓ 2013/11/22
Date

✓ 
Name 4th Inventor Yi-Ming Sheu