

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>Gwo-Yuh Shiau</td><td>08/10/2006</td></tr><tr><td>Ming-Chyi Liu</td><td>08/10/2006</td></tr><tr><td>Yuan-Chih Hsieh</td><td>08/10/2006</td></tr><tr><td>Shih-Chi Fu</td><td>08/10/2006</td></tr><tr><td>Chia-Shiung Tsai</td><td>08/10/2006</td></tr></tbody></table>	Name	Execution Date	Gwo-Yuh Shiau	08/10/2006	Ming-Chyi Liu	08/10/2006	Yuan-Chih Hsieh	08/10/2006	Shih-Chi Fu	08/10/2006	Chia-Shiung Tsai	08/10/2006	
Name	Execution Date												
Gwo-Yuh Shiau	08/10/2006												
Ming-Chyi Liu	08/10/2006												
Yuan-Chih Hsieh	08/10/2006												
Shih-Chi Fu	08/10/2006												
Chia-Shiung Tsai	08/10/2006												
RECEIVING PARTY DATA													
Name:	TAIWAN SEMICONDUCTOR MANUFACTURING CO. LTD.												
Street Address:	No. 8, Li-Hsin Rd. 6												
Internal Address:	Science-Based Industrial Park												
City:	Hsin-Chu												
State/Country:	TAIWAN												
Postal Code:	300-77, R.O.C.												
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>11531290</td></tr></tbody></table>	Property Type	Number	Application Number:	11531290									
Property Type	Number												
Application Number:	11531290												
CORRESPONDENCE DATA													
Fax Number:	(770)951-0933												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	7709339500												
Email:	dan.mcclure@tkhr.com												
Correspondent Name:	Daniel R. McClure												
Address Line 1:	100 Galleria Parkway												
Address Line 2:	Suite 1750												
Address Line 4:	Atlanta, GEORGIA 30339												
ATTORNEY DOCKET NUMBER:	252011-4050												

OP \$40.00 11531290

500150350

PATENT
REEL: 018237 FRAME: 0755

NAME OF SUBMITTER:

Daniel R. McClure

Total Attachments: 2

source=00421973#page1.tif

source=00421973#page2.tif

ASSIGNMENT

WHEREAS, Gwo-Yuh SHIAU, Ming-Chyi LIU, Yuan-Chih HSIEH, Shih-Chi FU, Chia-Shiung TSAI hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements as described and set forth in the below identified application for United States Letters Patent:

Title: METHODS FOR FABRICATING IMAGE SENSOR DEVICES

Filed: _____ Serial No. _____

Executed on: August 10, 2006

WHEREAS, Taiwan Semiconductor Manufacturing Co., Ltd. of No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, R.O.C. hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their rights, title and interest in and to the said invention and application and all future improvements thereon, and in and to any Letters Patent which may hereafter be granted on the same in the United States, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignor had this Assignment and transfer not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the date(s) indicated.

Gwo-Yuh Shiau
Gwo-Yuh SHIAU

Aug. 10, 2006
Date:

Ming-Chyi Liu
Ming-Chyi LIU

Aug. 10, 2006
Date:

Yuan-Chih Hsieh
Yuan-Chih HSIEH

Aug. 10, 2006
Date:

Shih-Chi Fu
Shih-Chi FU

Aug 10, 2006
Date:

Chia-Shiung Tsaï
Chia-Shiung TSAI

Aug 10, 2006
Date: