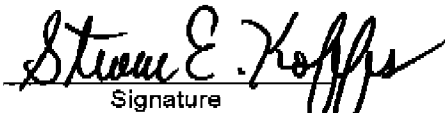


Form PTO-159S (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies): 1. Chin Chen Kuo 5. Te-Fu Tseng 2. Chih-Kung Chang 3. Hung-Jen Hsu 4. Fu-Tien Weng Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			2. Name and address of receiving party(ies) Name: <u>Taiwan Semiconductor Manufacturing Co., Ltd.</u> Internal Address: _____ _____ Street Address: <u>No. 8, Li-Hsin Road 6</u> <u>Science Based Industrial Park</u> City: <u>Hsin-Chu</u> State: _____ Zip: _____ Country: <u>Taiwan 300-77 R.O.C.</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____					
Execution Date: <u>02/25/2004</u>					
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s) <u>10/781,217</u> B. Patent No.(s) _____ _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>William H. Murray, Esquire</u> Internal Address: <u>Duane Morris LLP</u> _____ Street Address: <u>One Liberty Place</u> _____ City: <u>Philadelphia</u> State: <u>PA</u> Zip: <u>19103</u>			6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41).....\$ 40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 04-1679 8. Deposit account number: <u>04-1679</u>		
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9. Signature. <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="width: 30%;"> <u>Steven E. Koffs</u> Name of Person Signing </div> <div style="width: 30%; text-align: center;">  Signature </div> <div style="width: 30%; text-align: right;"> <u>07/16/04</u> Date </div> </div> <p style="text-align: center; margin-top: 10px;">Total number of pages including cover sheet, attachments, and documents: <u>5</u></p>					

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700099604

PATENT
REEL: 014862 FRAME: 0744

Serial No.: 10/781,217
Filed: 02/17/2004

EXPRESS MAIL LABEL NO.: EV 394066695 US

ATTORNEY DOCKET NO. N1085-00260
[TSMC2003-0953]

ASSIGNMENT AND AGREEMENT

For value received, we, **Chin Chen Kuo, Chih-Kung Chang, Hung-Jen Hsu, Fu-Tien Weng, and Te-Fu Tseng**, hereby sell, assign and transfer to Taiwan Semiconductor Manufacturing Co., Ltd., with its principal place of business located at No. 8, Li-Hsin Road 6, Science-Based Industrial Park, Hsin-Chu, Taiwan 300-77, Republic of China, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **IMAGE SENSOR FABRICATION METHOD AND STRUCTURE** described in an application for Letters Patent of the United States and all the rights and privileges in said application and under any and all Letters Patent and any divisions, continuations, continuations-in-part, reexamination certificates, reissues, and extensions thereof that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Taiwan Semiconductor Manufacturing Co., Ltd. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Taiwan Semiconductor Manufacturing Co., Ltd. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Taiwan Semiconductor Manufacturing Co., Ltd. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Taiwan Semiconductor Manufacturing Co., Ltd. in the United States and in all countries foreign to the United States, or to such nominees as Taiwan Semiconductor Manufacturing Co., Ltd. may designate.

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ATTORNEY DOCKET NO. N1085-00260
[TSMC2003-0953]

We agree that, when requested, we shall, without charge to Taiwan Semiconductor Manufacturing Co., Ltd, but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

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Dated: 7/25/04

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2-MAR-2004 14:57 FROM

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[TSMC2003-0953]

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RECORDED: 07/16/2004

PATENT TOTAL P.10
03/22/2004 MO REEL 014862 FRAME 0747 010