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Form PTO-1595 RECORDATION FORM	U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office
(Rev. 03/01) PATENT	S ONLY
OMB No. 0651-0027 (exp. 5/31/2002)	
Tab settings → → → → → → → → → → → → →	Please record the attached original documents or copy thereof.
	2 Name and address of receiving party(ico)
1. Name of conveying party(ies):	Name: Taiwan Semiconductor Manufacturing Co., Ltd.
Hsiang-Huan Lee Ming Han Lee	Internal Address:
Ming-Shih Yeh	
Chen-Hua Yu Additional name(s) of conveying party(ies) attached? Yes VNo	
3. Nature of conveyance:	
Assignment Merger	Street Address: No. 8, Li-Hsin Road 6
Security Agreement Change of Name	Science Based Industrial Park
Other	
	City: <u>Hsin-Chu</u> State: Zip:
Execution Date: 04/17/2008	Country: Taiwan 300-77 R.O.C. Additional name(s) & address(es) attached? Yes 🗸 No
4. Application number(s) or patent number(s):	
If this document is being filed together with a new app	lication, the execution date of the application is:
A. Patent Application No.(s) 12/112,405	B. Patent No.(s)
Additional numbers a	attached? Yes VNo
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved:
concerning document should be mailed:	7. Total fee (37 CFR 3.41)\$40.00
Name: Steven E. Koffs, Esquire	7. Total fee (37 CFR 3.41)
	Enclosed
Internal Address: Duane Morris LLP	Authorized to be charged to deposit account
	Already charged on 5/30/2008
	8. Deposit account number:
Street Address: 30 South 17th Street	
	04-1679
City: Philadelphia State: PA Zip: 19103-4196	
9. Signature.	
Joseph A. Powers, Esquire	Colencial de la colection de l
Name of Person Signing	Signature 10
Mail documents to be recorded v	over sneet, allachments, and documents.
Commissioner of Patents	& Trademarks, Box Assignments gton, D.C. 20231

PATENT REEL: 021048 FRAME: 0226

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Serial No. 12/112,405 Filed: 04/30/2008

ATTORNEY DOCKET NO.: 2007.0842/1085.538

ASSIGNMENT AND AGREEMENT

For value received, we, Hslang-Huan Lee, Ming Han Lee, Ming-Shih Yeh, and Chen-Hua Yu 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 LOW RESISTANCE HIGH RELIABILITY CONTACT VIA AND METAL LINE STRUCTURE FOR SEMICONDUCTOR DEVICE described in Provisional Application Serial 61/067,698 filed February 29, 2008 and a non-provisional application for Letters Patent of the United States and all the rights and privileges in said applications, and under any and all Letters Patent and any divisions, continuations, continuations-in-part, reexamination certificates, reissues, and extensions thereof, or claiming priority therefrom 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.: 2007.0842/1085:538

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 conventent in connection with said applications, patents, or other forms of protection.

Inventor No. 1

Dated: 417. 200

Heiang - Huan Leo-Historig Huan Leo

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Dated: 4/17 2008

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Dated: 9/17 2008

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4/17/08 Dated:

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Residence:

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TO:STEVEN E. KOFFS, DUANE MORRIS LLP COMPANY:30 SOUTH 17TH STREET

PATENT ASSIGNMENT

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NEW ASSIGNMENT SUBMISSION TYPE: ASSIGNMENT NATURE OF CONVEYANCE: CONVEYING PARTY DATA

Name	Execution Date
	04/17/2008
Hsiang-Huan Lee	04/17/2008
Ming Han Lee	04/17/2008
Ming-Shih Yeh	04/17/2008
Chen-Hua Yu	

RECEIVING PARTY DATA

Name:	Talwan Semiconductor Manufacturing Co., Ltd.		
Street Address:	No. 8, Li-Hsin Road 6		
Internal Address:			
City:	Hsin-Chu		
State/Country:			
Postal Code:	300-77		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12112405

CORRESPONDENCE DATA

Fax Number: <i>Correspondence will be se</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	(215)979-1020 sent via US Mail when the fax attempt is unsuccessful. (215) 979-1250 lambriodes@duanemorris.com Steven E. Koffs, Duane Morris LLP 30 South 17th Street Philadelphia, PENNSYLVANIA 19103-4196	
ATTORNEY DOCKET NUMBER:		N1085-00538
NAME OF SUBMITTER:		Steven E. Koffs

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Serial No. 12/112,405 Filed: 04/30/2008

ATTORNEY DOCKET NO.: 2007.0842/1085.538

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ASSIGNMENT AND AGREEMENT

For value received, we, Hsiang-Huan Lee, Ming Han Lee, Ming-Shin Yeh, and Chen-Hun Yu bereby sell, assign and mansfer 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 LOW RESISTANCE HIGH RELIABILITY CONTACT VIA AND METAL LINE STRUCTURE FOR SEMICONDUCTOR DEVICE described in Provisional Application Serial 61/067,698 filed February 29, 2008 and a non-provisional application for Letters Patent of the United States and all the rights and privileges in said applications, and under any and all Letters Patent and any divisions, continuations, continuations-in-part, reexamination certificates, reissues, and extensions thereof, or claiming priority therefrom 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 mising 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.

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ATTORNEY DOCKET NO.: 2607.0842/1085.538

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

inventor No. 1

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RECORDED: 05/29/2008