PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

NATURE OF CONVEYANCE: ASSIGNMENT CONVEYING PARTY DATA Execution Date D7/31/2009 Yung-Cheng Chen D8/03/2009 Hang-Jen Lee D8/03/2009 RECEIVING PARTY DATA Receiving Party DATA Name: Talwan Semiconductor Manufacturing Co., Ltd. Street Address: Science-Based Industrial Park City: Hsin-Chu Street Address: Science-Based Industrial Park City: Hsin-Chu State/Country: TAIWAN Postal Code: 300-77 PROPERTY NUMBERS Total: 1 Property Type Number Application Number: 12537836 CORRESPONDENCE DATA Fax Number: (215)754-4617 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: (215)754-4617 Correspondence owill be sent via US Mail when the fax attempt is unsuccessful. Phone: (215)754-4617 Correspondence Will be sent via US Mail when the fax attempt is unsuccessful. Phone: </th <th colspan="2">SUBMISSION TYPE:</th> <th>NEW ASSIGNMENT</th> <th></th> <th></th>	SUBMISSION TYPE:		NEW ASSIGNMENT		
Name Execution Date Chih-Wei Lin 07/3 1/2009 Yung-Cheng Chen 08/03/2009 Heng-Jen Lee 08/03/2009 RECEIVING PARTY DATA 08/03/2009 RECEIVING PARTY DATA Street Address: Name: Taiwan Semiconductor Manufacturing Co., Ltd. Street Address: No. 8, Li-Hsin Road 6 Internal Address: Science-Based Industrial Park City: Hsin-Chu State/Country: TAIWAN Postal Code: 300-77 PROPERTY NUMBERS Total: 1 Property Type Number: 12537836 CORRESPONDENCE DATA Property Type Fax Number: (215)754-4617 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 215-379-1250 Email: Lambriodes@duanemorris.com Correspondent Name: Duane Morris LLP, Steven E. Koffs Address Line 1: 30 South 17th Street Address Line 1: Stole Joint 7. Address Line 1: N1085-00592	NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
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ATTORNEY DOCKET NUMBER: N1085-00592					
	Address Line 4:	Philadelp	hia, PENNSYLVANIA 19103-4196		
NAME OF SUBMITTER: Jarrad M. Gunther	ATTORNEY DOCKE	T NUMBER:	N1085-00592		
	NAME OF SUBMITT	ER:	Jarrad M. Gunther		_

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ATTORNEY DOCKET NO.: 2009.0049/1085.592

ASSIGNMENT AND AGREEMENT

For value received, I, Chih-Wei Lin, Yung-Cheng Chen, and Heng-Jen Lee, hereby 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 FRAME CELL FOR SHOT LAYOUT FLEXIBILITY described in a nonprovisional application 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.

I 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 me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I 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.

I 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.: 2009.0049/1085.592

I agree that, when requested, I 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.

Inventor No. 1

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Dated: $\frac{7}{3} > 2009$

<u>Chih-Wei</u> Lin

Residence:

No. 10, Alley 52, Lane 162, Gaocui Road, Hsinchu City 300, Taiwan, R.O.C.

Inventor No. 2

Dated: 8/3, 2009

Jung cheng Chen

Residence:

No. 29, Lane 588, Shangyi Village, Jhubei City, Hsinchu County 302, Taiwan, R.O.C.

Inventor No. 3

Dated: $\frac{8}{3}$ 200

Heng-Jen Lee Heng In Lee

Residence:

No. 18, Baoshan 8th Street, Baoshan Township, Hsinchu County 308, Taiwan, R.O.C.

PATENT REEL: 023097 FRAME: 0750

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RECORDED: 08/13/2009