PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Feng-Ming CHANG	11/02/2011
Chang-Ta YANG	11/02/2011
Huai-Ying HUANG	11/02/2011
Ping-Wei WANG	11/02/2011

RECEIVING PARTY DATA

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
Application Number:	13289030

CORRESPONDENCE DATA

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Mail.

ARVIND JAIRAM - DUANE MORRIS LLP Correspondent Name:

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ATTORNEY DOCKET NUMBER:	N1085-00822
NAME OF SUBMITTER:	Arvind Jairam

Total Attachments: 3

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REEL: 027174 FRAME: 0444

SErial No. 13/289,030 filed November 4, 2011

ATTORNEY DOCKET NO.: 2011.0569/1085.822

ASSIGNMENT AND AGREEMENT

For value received, we, Feng-Ming CHANG, Chang-Ta YANG, Huai-Ying HUANG and Ping-Wei WANG, 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 SRAM TIMING TRACKING CIRCUIT, described in a non-provisional 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.

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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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.

Inventor No. 1

Dated: VNOV. 2. 201/

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Dated: V Mon 2, 11

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