PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Andy HONG	02/25/2010
Edwin D. LIOU	02/26/2010
Chiapin WEN	02/25/2010
Winston TSAI	02/25/2010
Chih-Sheng SHIH	02/26/2010

RECEIVING PARTY DATA

Name:	TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.	
Street Address:	No. 8, Li-Hsin Rd. VI, Hsinchu Science Park	
City:	Hsinchu	
State/Country:	TAIWAN	
Postal Code:	300	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12697510

CORRESPONDENCE DATA

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Total Attachments: 1

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PATENT REEL: 024191 FRAME: 0010

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

Andy HONG 1)

Winston TSAI

Edwin D. LIOU

5) Chih-Sheng SHIH

Chiapin WEN

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD.having a place of business at No. 8, Li-Hsin Rd. VI, Hsinchu Science Park, Hsinchu, Taiwan 300, R.O.C.

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

METHODS AND SYSTEMS FOR DYNAMIC INVENTORY CONTROL

- (a) for which an application for United States Letters Patent was filed on February 1, 2010, and identified by United States Patent Application No. 12/697,510; or
- (b) for which an application for United States Letters Patent was executed on _

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) Name: Andy HONG

Feb. 75/10 Date:

Name: Edwin D. LIOU

Date:

Date:

Winston TSAI 4) Name: Chiapin WEN

Name: Chiapin WEN

5) Name: Chih-Sheng SHIH

RECORDED: 04/06/2010

VinstonTs an Chih-shong sHZH

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