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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Chung-Hsing Wang	02/07/2012
King-Ho Tam	02/07/2012
Huang-Yu Chen	02/07/2012

RECEIVING PARTY DATA

Name:	Taiwan Semiconductor Manufacturing Co., Ltd.
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City:	Hsin-Chu
State/Country:	TAIWAN
Postal Code:	300-77

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13331329

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ATTORNEY DOCKET NUMBER: TSMCP119US

NAME OF SUBMITTER: Thomas G. Eschweiler

Total Attachments: 5

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Docket No. TSMCP119US
Client Docket No. TSMC2011-1270

PATENT ASSIGNMENT

PARTIES TO THE ASSIGNMENT

Assignor(s):

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Assignor(s):

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Assignee:

Taiwan Semiconductor Manufacturing Co., Ltd. No. 8, Li-Hsin Rd. 6, Hsin-Chu Science Park Hsin-Chu, Taiwan 300-77 Republic of China

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

"AUTOMATIC PLACE AND ROUTE METHOD FOR ELECTROMIGRATION TOLERANT POWER DISTRIBUTION" for which:

a non-provisional application for United States Letters Patent:

was executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney); or

U.S. Patent Appln. No. Filing Date

Docket No. TSMCP119US
Client Docket No. TSMC2011-1270

was filed on and accorded U.S. Serial No; or
will be filed without this executed PATENT ASSIGNMENT. ASSIGNOR hereby
authorizes and requests ASSIGNEE'S legal representatives, the attorneys
associated with Customer No, to insert below in this document this
APPLICATION's U.S. Serial Number and filing date, when known:
U.S. Serial No,
filed on

WHEREAS, ASSIGNEE (listed above), a corporation of the Republic of China is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its successors and assigns, the entire right, title and interest in and to said invention and improvements, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, re-examinations and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment, transfer and sale not been made. ASSIGNOR(S)

U.S. Patent Appln. No.

Filing Date

Docket No. TSMCP119US

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hereby authorize and request the Commissioner of Patents and Trademarks to issue all

letters patent on said invention to ASSIGNEE. ASSIGNOR(S) agree to execute all

instruments and documents required for the making and prosecution of applications for

United States and foreign letters patent on said invention, for litigation regarding said letters

patent, or for the purpose of protecting title to said invention or letters patent therefore.

<u>⊃' / 20/2</u> Date

Name 1st Inventor Chung-Hsing Wang

U.S. Patent Appln. No. Filing Date

Docket No. TSMCP119US Client Docket No. TSMC2011-1270

02/07/2012 Date

Name

2nd Inventor King-Ho

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Docket No. TSMCP119US Client Docket No. TSMC2011-1270

2012/2/7 Date

Name 3rd Inventor Huang-Yu Chen

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RECORDED: 02/10/2012