PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Cheng-Hsien WU	01/13/2011
Chih-Hsin KO	01/13/2011
Clement Hsingjen WANN	01/18/2011

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:	13009151

OP $40.00 13009151

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	T5057-B355U
NAME OF SUBMITTER:	Benjamin J. Hauptman

Total Attachments: 1
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Docket No.: T5057-B355U

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,

1) **Cheng-Hsien WU**
2) **Chih-Hsin KO**
3) **Clement Hsingjen WANN**

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 300, Taiwan 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

SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD WITH IMPROVED EPITAXIAL QUALITY OF III-V COMPOUND ON SILICON SURFACES

(a) for which an application for United States Letters Patent was filed on 1-19-2011, and identified by United States Patent Application No. 13/009,151 ; 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) Cheng-Hsien Wu Name: **Cheng-Hsien WU**	2011.1.13 Date:
2) Chih-Hsin Ko Name: **Chih-Hsin KO**	2011.1.13 Date:
3) Clement Hsingjen Wann Name: **Clement Hsingjen WANN**	2011.1.18 Date: