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YU-MING TSUI, WEN-CI	•			n Semiconductor Manu	facture	
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PATENT REEL: 010041 FRAME: 0175

	For X U.S. and/or X Foreign Rights				
	For X Application or U.S. Patent				
	By X Inventor(s) or Present Owner				
ASSIGNMENT OF INVENTION					
In consideration of the payment by ASSIGNE receipt of which is hereby acknowledged, and	E to ASSIGNOR of the sum of One Dollar (\$1.00), the d for other good and valuable consideration,				
ASSIGNOR:					
YU - MING TSU1  Type or printname of ASSIGNOR	Wen-Cheria Chang Type or print name of ASSIGNOR				
No. 356, Sec 3 Chung-Chong Rd	Ali 73 Fl, it ofane, Green-Groug Lake				
Hu-Kuo country Usin-Chu county Tolm	Hisin-Chu City, Taiwan				
Republic of China	Republic of China				
Shung - Jen Yu Type or print/name of ASSIGNOR  5 rd Fl, 2, 30 Lane, Pao - Ping Rd Address  Taipei county Yung - Ho, Taiwan  Republic of China  Nationality  ASSIGNEE:  Taiwan Semiconductor Manufacturing Co 121 Park Ave. 3  Science-Based Industrial Park Hsin-Chu, Taiwan, R.O.C.  Taiwan, R.O.C.  Nationality					
and the successors, assigns and legal repres	sentatives of the ASSIGNEE				
	one of the following)				
x the entire right, title and interest					
<b>1</b>	interest for the United States and its territorial possessions an rights are also to be assigned)				
in and to any and all improvements which are	e disclosed in the invention entitled:				

A Method For Making High-Sheet-Resistance Polysilicon Resistors For Integrated Circuits

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PATENT REEL: 010041 FRAME: 0176

For X U.S. and/or X Foreign Rights
For X Application or U.S. Patent
By X Inventor(s) or Present Owner
ASSIGNMENT OF INVENTION
In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,
ASSIGNOR:
Ting Sheng - Titl Type or print name of ASSIGNOR
57, No 6 374 Lane, Tayh-Chung West Rd.
Taoyuan Taiwan
Republic of China
ASSIGNEE
Taiwan Semiconductor Manufacturing Co. Ltd. 121 Park Ave. 3
Science-Based Industrial Park Hsin-Chu, Taiwan, R.O.C.
Taiwan, R.Q.C.
Nationality Nationality
and the successors, assigns and legal representatives of the ASSIGNEE
(complete one of the following)
x the entire right, title and interest
an undivided percent (%) interest for the United States and its territorial possessions

in and to any and all improvements which are disclosed in the invention entitled:

x and in all foreign countries

A Method For Making High-Sheet-Resistance Polysilicon Resistors For Integrated Circuits

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PATENT REEL: 010041 FRAME: 0177

(a) U.S. patent application executed on	even date herewith
	31,7/99 and 5/21/99
c) U.S. application serial no.	
	issued
	(e) if foreign application(s) is also being assigned)
(e) and any legal equivalent thereof in a	a foreign country, including the right to clam priority
	ained for said invention by the above application or any reof, and as to letters patent any re-issue or re-examination
ASSIGNOR hereby covenants that no assible made or entered into which would conflict w	ignment, sale, agreement or encumbrance has been or will with this assignment.
pertinent facts and documents relating to said may be known and accessible to ASSIGNOR and proceeding related thereto and will promptly execute any and all papers, instruments or affidavits required.	GNEE will, upon its request, be provided promptly with all invention and said Letters Patent and legal equivalents as id will testify as to the same in any interference, litigation or ecute and deliver to ASSIGNEE or its legal representatives quired to apply for, obtain, maintain, issue and enforce said atent and said equivalents thereof which may be necessary this
Mar. 17, 1999	
WARNING Date of signing must be the same as the date	signature of Assignor(s)  Wen Clary  Llung - Jen Yn
If ASSIGNOR is a legal entity complete the following	ng information
	Type or print the name of the above person authorized to sign on behalf of ASSIGNOR
	Title
· · · · · · · · · · · · · · · · · · ·	y, if the assignment is notarized or legalized then it will only be prima facie evidence (35 USC
261). Use next page if notarization is desired.	Notarization of Legalization Page Added

**PATENT** 'REEL: 010041 FRAME: 0178

and which is found in	
(a) U.S. patent application executed on even day  (b) X U.S. patent application executed on 3/17.  (c) U.S. application serial no.  (d) U.S. patent no.  (also check (e) if foreign  (e) and any legal equivalent thereof in a foreign	filed on issued gn application(s) is also being assigned)
and, in and to, all Letters Patent to be obtained for continuation, division, renewal, or substitute, thereof, and thereof.	
ASSIGNOR hereby covenants that no assignment, be made or entered into which would conflict with this a	sale, agreement or encumbrance has been or wilessignment.
pertinent facts and documents relating to said invention may be known and accessible to ASSIGNOR and will test proceeding related thereto and will promptly execute an any and all papers, instruments or affidavits required to application, said invention, and said Letters Patent and or desirable to carry out the purposes thereof.  IN WITNESS WHEREOF, 17 We have signed this	stify as to the same in any interference, litigation of d deliver to ASSIGNEE or its legal representatives apply for, obtain, maintain, issue and enforce said d said equivalents thereof which may be necessary
WARNING Date of signing must be the same as the date of executions.	
If ASSIGNOR is a legal entity complete the following inform	ation
	Type or print the name of the above person authorized to sign $\alpha$ behalf of ASSIGNOR

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Title

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261). Use next page if notarization is desired.

**RECORDED: 06/14/1999** 

PATENT REEL: 010041 FRAME: 0179