PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Qi Xiang	11/24/2003
James N. Pan	12/15/2003
Jung-Suk Goo	12/11/2003

RECEIVING PARTY DATA

Name:	Advanced Micro Devices, Inc.	
Street Address:	One AMD Place	
Internal Address:	P.O. Box 3453	
City:	Sunnyvale	
State/Country:	CALIFORNIA	
Postal Code:	94088-3453	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	12115473	

CORRESPONDENCE DATA

Fax Number: (414)297-4900

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 414-271-2400

Email: PTOMailMilwaukee@foley.com

Correspondent Name: Joseph N. Ziebert

Address Line 1: 777 East Wisconsin Avenue

Address Line 2: Foley & Lardner LLP

Address Line 4: Milwaukee, WISCONSIN 53202-5306

ATTORNEY DOCKET NUMBER:	039153-0714
NAME OF SUBMITTER:	Joseph N. Ziehert

Total Attachments: 5

PATENT REEL: 021517 FRAME: 0282

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> PATENT REEL: 021517 FRAME: 0283

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

Advanced Micro Devices, Inc. One AMD Place P.O. Box 3453 Sunnyvale, California 94088-3453

(hereinafter ASSIGNEE) its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

SHALLOW TRENCH ISOLATION PROCESS AND STRUCTURE WITH MINIMIZED STRAINED SILICON CONSUMPTION

check one	[X] executed concurrently herewith,
	executed on,
	Serial No. Unknown Filed

as set forth in this United States Patent Application

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and counties foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

PATENT REEL: 021517 FRAME: 0284 ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of Foley & Lardner the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of Foley & Lardner do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

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ate of) iss.	,		
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On this 21	Hoday of Nove	mber , 2003	, before me, a nota	ry public in and for said county,	appeared QI XIANG, who
personally known to ned, sealed, and del	ivered the said instrun	ment as his/her free and	l voluntary act for t	going instrument, and he/she act he uses and purposes therein set	forth.
		PEGGY C. F. Commission # 1 Notary Public - C Santa Clara C	ANG 334317 \$ California \$ County \$	Pegg	C- Fang
(Seal)		My Comm. Expines I	880 U. IIII P	. My Commission Expires: $oldsymbol{\mathcal{D}}$	ecember 11.2
(4.11.)					
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Execute	d this day	y of	, 20		
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ate of)		JAMES N. PA	IN.
ounty of)ss. }	,		

ho is nersonally kno	run to me to be the sar	me person whose name	is subscribed to th	ry public in and for said county, e foregoing instrument, and he/sl	ie acknowledged inst
/she signed, scaled.	and delivered the said	i instrument as his/her	free and voluntary	act for the uses and purposes the	rein set forth.
				Notary	Public
				My Commission Expires:	
(Seal)					
Execut	ed this <u>Ilth</u> da	y of December	<u>-</u> , 20 <u>63</u> ,		
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tate of Calift	Knia	*	***************************************	JUNG-SUK GO	00
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County of Santa Clara)85.

Notary Public

My Commission Expires:

(Seal)

WINONA C. ORANGE
Commission # 1296145
Notary Public - California
Santa Clara County
My Comm. Expires Apr 1, 2005

Executed this day of	, 20
ı	QI XIANG
State of) County of)	
On this day of, 20	, before me, a notary public in and for said county, appeared QI XIANG, who escribed to the foregoing instrument, and he/she acknowledged that he/she i voluntary act for the uses and purposes therein set forth.
	Notary Public
o- 6	My Commission Expires:
(Scal)	
Executed this 15th day of De c.	
State of New York County of Fitchist See	JAMES N. PAN
On this 15th day of Dec. 2003 who is personally known to me to be the same person whose name he/she signed, sealed, and delivered the said instrument as his/her BETTY J. GERSCH.	
Notary Public - State of New No. 4997781	York Secty Jerock Notary Public
Qualified in Ulster Count Commission Expires June 15.	W 12. 15 3.66
Executed this day of	, 20
State of	JUNG-SUK GOO

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