101675/199

LIS DEPARTMENT OF COMMERCE

Docket No.: 52352-886	1-31-92	10101040	,o	Patent and Trademark Office	
1. Name of Conveying Party(ies): Matthew S. BUYNOSKI, Qi XIANG and Paul R. BESSER Additional name(s) of conveying party(ies) attached? Yes 3. Nature of Conveyance: Assignment					
Matthew S. BUYNOSKI, Qi XIANG and Paul R. BESSER Additional name(s) of conveying party(ies) attached? Yes 3. Nature of Conveyance:	To the Honorable Commissioner for Patents and	Trademarks: Please	record the attached origin	nal documents or copy thereto:	
Additional name(s) of conveying party(ies) attached?	Name of Conveying Party(ies):	2. Na	ne and address of receiving	ng party(ies):	
Additional name(s) of conveying party(ies) attached? Yes Sunnyvale, California 94088-3453 Sunnyvale, California 940	Matthew S. BUYNOSKI, Qi XIANG and Paul R. BESSER		ADVANCED MICI	RO DEVICES, INC.	
3. Nature of Conveyance: Assignment Change of Name Additional name(s) & address(es) attached? Yes 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: February 22, 2001, March Yes		Addre	s: One AMD Place		
Merger Change of Name Change of Na	Additional name(s) of conveying party(ies) attached?	Yes		0	
Gecurity Agreement	3. Nature of Conveyance:		Sunnyvale, Californ	nia 94088-3453	
Other Execution Date: February 22, 2001, March 9, 2001 and March 14, 2001 (respectively) Additional name(s) & address(es) attached?				Z. Tria	
Execution Date: February 22, 2001, March 9, 2001 and March 14, 2001 (respectively) Additional name(s) & address(es) attached?		of Name	21/11	200 E	
Additional name(s) & address(es) attached? ☐ Yes 4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: February 22, 2001, March 9, 2001 and March 14, 2001 (respectively) A. Patent Application No(s). B. Patent No(s). Additional numbers attached? ☐ Yes 5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT, WILL & EMERY Internal Address: 600 13 th Street, N.W. Street Address: 600 13 th Street, N.W. City: Washington State: DC Zip: 20005 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Total number of pages comprising cover sheet: 1			-101	27.6	
Additional name(s) & address(es) attached?	• ' ' '	and	•		
4. Application number(s) or patent number(s): If the document is being filed together with a new application, the execution date of the application is: February 22, 2001, March 9, 2001 and March 14, 2001 (respectively) A. Patent Application No(s). B. Patent No(s). Additional numbers attached? ☐ Yes 5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT, WILL & EMERY Internal Address: Street Address: 600 13th Street, N.W. City: Washington State: DC Zip: 20005 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Date Total number of pages comprising cover sheet: 1	March 14, 2001 (respectively)	نبنداد ۸		a) attached? Vac	
If the document is being filed together with a new application, the execution date of the application is: February 22, 2001, March 9, 2001 and March 14, 2001 (respectively)	4 A - 1: - 4:	Addiu	onai name(s) & address(e	s) attached? res	
9, 2001 and March 14, 2001 (respectively) A. Patent Application No(s). Additional numbers attached?					
A. Patent Application No(s). B. Patent No(s).	If the document is being filed together with a new	application, the exec	ation date of the applican		
Additional numbers attached? Yes					
Additional numbers attached? ☐ Yes 5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT, WILL & EMERY Internal Address: Street Address: 600 13th Street, N.W. City: Washington State: DC Zip: 20005 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Date Total number of applications and patents involved: 1 Catal number of applications and patents involved: 1 S40.00 Do Not Use THIS SPACE 9. Statement and signature. Aaron Weisstuch, 41,557 Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Date Total number of pages comprising cover sheet: 1	A Detent Application No(s)	D Dog	ant No(a)	2001 (Tespectively)	
Additional numbers attached? ☐ Yes 5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT, WILL & EMERY Internal Address: Street Address: Street Address: City: Washington State: DC Zip: 20005 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Total number of applications and patents involved: 1 City Statement and patents involved: Additional number of applications and patents involved: 1 Concerning document should be mailed: Authorized to be charged to deposit account number: 500417 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. March 21, 2001 Name and Registration No. of Person Signing Signature Date Total number of applications and patents involved: 1	A. Fatent Application No(s).	D. Fa	* *	26/5-10	
Additional numbers attached? ☐ Yes 5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT, WILL & EMERY Internal Address: Street Address: Street Address: City: Washington State: DC Zip: 20005 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Total number of applications and patents involved: 1 City Statement and patents involved: Additional number of applications and patents involved: 1 Concerning document should be mailed: Authorized to be charged to deposit account number: 500417 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. March 21, 2001 Name and Registration No. of Person Signing Signature Date Total number of applications and patents involved: 1			09	813310	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: MCDERMOTT, WILL & EMERY Internal Address: Street Address: Street Address: ONOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing 6. Total number of applications and patents involved: 7. Total fee (37 CFR 3.41) S40.00 Authorized to be charged to deposit account 8. Deposit account number: 500417 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Signature Date Total number of applications and patents involved: 1 S40.00 Match 21, 2001 Signature Date Total number of pages comprising cover sheet: 1	·			•	
concerning document should be mailed: Name: MCDERMOTT, WILL & EMERY Internal Address: Street Address: 600 13th Street, N.W. City: Washington State: DC Zip: 20005 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Total number of pages comprising cover sheet: 1	Additional numbers attached? Yes				
Name: MCDERMOTT, WILL & EMERY Internal Address: Street Address: Street Address: City: Washington State: DC Zip: 20005 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Total number of pages comprising cover sheet: 1	5. Name and address of party to whom corresponden	ce 6. Tot	al number of applications	and patents involved:	
Internal Address: Street Address: 600 13th Street, N.W. Street Address: 600 13th Street, N.W. City: Washington State: DC Zip: 20005 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Date Total number of pages comprising cover sheet: 1	concerning document should be mailed:				
Street Address: 600 13th Street, N.W. Street Address: 600 13th Street, N.W. DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Date Total number of pages comprising cover sheet: 1	Name: MCDERMOTT, WILL & EMERY	7. Tot	al fee (37 CFR 3.41)	\$40.00	
Street Address: 600 13th Street, N.W. City: Washington State: DC Zip: 20005 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Date Total number of pages comprising cover sheet: 1	Internal Address:		Enclosed		
Statement and signature. DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Total number of pages comprising cover sheet: 1			Authorized to be charged	d to deposit account	
DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Total number of pages comprising cover sheet: 1	Street Address: 600 13th Street, N.W.	8. Dej	osit account number:		
DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Date Total number of pages comprising cover sheet: 1			500417		
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Total number of pages comprising cover sheet: 1	City: Washington State: DC Zip	: 20005			
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Total number of pages comprising cover sheet: 1	DO NOT USE THIS SPACE				
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Total number of pages comprising cover sheet: 1	9 Statement and signature				
Aaron Weisstuch, 41,557 Name and Registration No. of Person Signing Signature Total number of pages comprising cover sheet: 1 March 21, 2001 Date		foregoing informatio	ı is true and correct and c	any attached copy is a true copy	
Name and Registration No. of Person Signing Name and Registration No. of Person Signing Total number of pages comprising cover sheet: 1			, 13 1, 000 0000 000 000 000		
Name and Registration No. of Person Signing Signature Date Total number of pages comprising cover sheet:	of the original accument.	<i>^</i>			
Total number of pages comprising cover sheet: 1	Aaron Weisstuch, 41,557	Garon (Deisstuch	March 21, 2001	
	Name and Registration No. of Person Signing	Sign	ature	Date	
CMB No. 0851-0011 (exp. 4/94)		Total ni	mber of pages comprisin	g cover sheet: 1	
	CMB No. 0851-0011 (exp. 4/94)		- Ad	A THE STATE OF THE	

PATENT REEL: 011673 FRAME: 0452 Docket No.: 52352-886

ASSIGNMENT

WHEREAS WE, Matthew S. Buynoski, Qi Xiang, and Paul R. Besser of Palo Alto, California; San Jose, California; and Austin, Texas, respectively, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled SEMICONDUCTOR DEVICES WITH DIFFERENTLY COMPOSED METAL-BASED GATE ELECTRODES, executed by us on the date of execution of this document, as shown below, and filed concurrently herewith;

AND WHEREAS, Advanced Micro Devices, Inc., a corporation of the State of Delaware and having an address of One AMD Place, P. O. Box 3453, Sunnyvale, California 94088-3453 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto Advanced Micro Devices, Inc., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including the right of priority and including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner for Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Advanced Micro Devices, Inc., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

PATENT REEL: 011673 FRAME: 0453

22 70/ 200/	Met 1. As
Date	Matthew S. Buynoski
22 Feb 200/ Date 3/9/200/	X
Date	Qi Xiang
3/14/01	Paul R.Bissin
Date	Paul R. Besser
Date	
STATE OF CALIFORNIA) Santa) SS:	
COUNTY OF Clara	(0.5)
On 2-22-01 before me	WINONA C. ORANGE Public,
onoctore me	nally known to me (or proved to me on the basis of
satisfactory evidence) to be the person(s) whose	name(s)(is)are subscribed to the within instrument
	executed the same in his/her/their authorized e(s) on the instrument the person(s), or the entity
upon behalf of which the person(s) acted, execute	
WITNESS my hand and official seal.	
Win on C Wange	
(si	gnature of Notary) (seal of Notary)
My commission expires	WINCHIA C ORANGE
V	Commission # 112/987 Notary Public — California
	Sanfa Clara County My Comm. Expires Apr 1, 2001
STATE OF CALIFORNIA) Santa) SS:	
COUNTY OF Clara	not ary
On 390	Miniona C. Cleanez Public,
personally appeared Qi Xiang, personally known	to me (or proved to me on the basis of satisfactory
evidence) to be the person(s) whose name(s)	is/are subscribed to the within instrument and the same in his/her/their authorized capacity(ies),
	rument the person(s), or the entity upon behalf of
which the person(s) acted, executed the instrument	nt.
WITNESS my hand and official seal.	
Winna C. Mance (si	gnature of Notary) (seal of Notary)
Ano. 1. 12 as	gnature of Notary) (seal of Notary)
My commission expires / MICII 0200	WINDNA C. ORANGE
V	
	Commission # 112/987 Notary Public — California Santa Clara County My Comm. Expires Apr 1, 2001

REEL: 011673 FRAME: 0454

TEVOS STATE OF CALIFORNIA) —) SS:	
COUNTY OF Travis	
on Morch 14, 2001 before me, Sommon A. Corcov personally appeared Paul R. Besser, personally known to me (or proved to me on the basic satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrurand acknowledged to me that he/she/they executed the same in his/her/their author capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the enupon behalf of which the person(s) acted, executed the instrument.	s of nent ized
WITNESS my hand and official seal. SAMANTHA A. CAR Notary Public, State of My Commission Exp APRIL 16, 200 (seal of Notary)	Texas ires
My commission expires (100)	

PATENT
RECORDED: 03/21/2001 REEL: 011673 FRAME: 0455