

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Kouros Ghandehari</td><td>12/14/2004</td></tr><tr><td>Anna M. Minvielle</td><td>12/14/2004</td></tr><tr><td>Marina V. Plat</td><td>12/14/2004</td></tr><tr><td>Hirokazu Tokuno</td><td>12/14/2004</td></tr></tbody></table>		Name	Execution Date	Kouros Ghandehari	12/14/2004	Anna M. Minvielle	12/14/2004	Marina V. Plat	12/14/2004	Hirokazu Tokuno	12/14/2004		
Name	Execution Date												
Kouros Ghandehari	12/14/2004												
Anna M. Minvielle	12/14/2004												
Marina V. Plat	12/14/2004												
Hirokazu Tokuno	12/14/2004												
RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>Advanced Micro Devices, Inc.</td></tr><tr><td>Street Address:</td><td>One AMD Place</td></tr><tr><td>Internal Address:</td><td>P.O. Box 3453</td></tr><tr><td>City:</td><td>Sunnyvale</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>94088-3453</td></tr></table>		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
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													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12468715</td></tr></tbody></table>		Property Type	Number	Application Number:	12468715								
Property Type	Number												
Application Number:	12468715												
CORRESPONDENCE DATA													
Fax Number: (414)297-4900 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 414-271-2400 Email: ptomailmilwaukee@foley.com Correspondent Name: Brett P. Belden Address Line 1: 777 East Wisconsin Ave Address Line 4: Milwaukee, WISCONSIN 53202													
ATTORNEY DOCKET NUMBER:	039153-0717												
NAME OF SUBMITTER:	Brett P. Belden												

OP \$40.00 12468715

500949536

PATENT
REEL: 023167 FRAME: 0494

Total Attachments: 4

source=Assgnt#page1.tif

source=Assgnt#page2.tif

source=Assgnt#page3.tif

source=Assgnt#page4.tif

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 referred to as "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

MULTILAYER LOW REFLECTIVITY HARD MASK AND PROCESS THEREFOR

as set forth in this United States Patent Application

check one ☒ [X] executed concurrently herewith,
 ☐ [] executed on _____,
 ☐ [] Serial No. _____ Filed _____

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 countries 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.

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 LLP** 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.

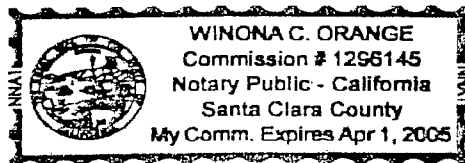
ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect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

Executed this 14th day of December, 2004

State of California
County of Santa Clara)ss.

KOUROS GHANDEHARI

On this 14th day of December, 2004, before me, a notary public in and for said county, appeared KOUROS GHANDEHARI, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



(Seal)

Winona C. Orange
Notary Public

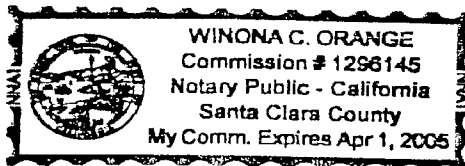
My Commission Expires: April 1, 2005

Executed this 14 day of December, 2004

State of California
County of Santa Clara)ss.

ANNA M. MINVIELLE

On this 14th day of December, 2004, before me, a notary public in and for said county, appeared ANNA M. MINVIELLE, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he/she acknowledged that he/she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



(Seal)

Winona C. Orange
Notary Public

My Commission Expires: April 1, 2005

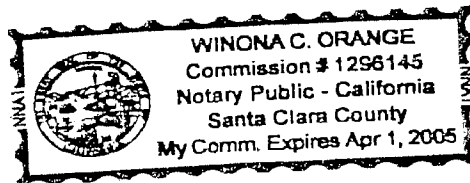
Executed this 18 day of Dec, 2004.

State of California
County of Santa Clara)ss.

Marina V. Plat

MARINA V. PLAT

On this 14th day of December, 2004, before me, a notary public in and for said county, appeared MARINA V. PLAT, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he she acknowledged that he she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



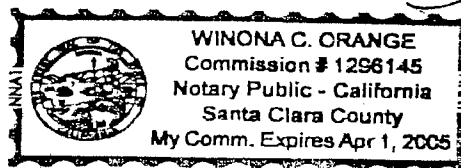
Winona C. Orange
Notary Public
My Commission Expires: April 1, 2005

Executed this 14 day of Dec, 2004.

State of California
County of Santa Clara)ss.

徳内 弘和
HIROKAZU TOKUNO

On this 14th day of December, 2004, before me, a notary public in and for said county, appeared HIROKAZU TOKUNO, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, and he she acknowledged that he she signed, sealed, and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.



Winona C. Orange
Notary Public
My Commission Expires: April 1, 2005