To the Director of the U.S. Patent. 103274751 discomments or the new address(es) below. 1. Name of conveying party(les)/Execution Oate(s): Memor Graphics (Deutschland) GmbH	From PTO-1595 (Rev. 09/04) CMB No. 0651-0027 (exp. 6/30/2005)	07-14-2	2006	U.S. Department of COMM United States Patent and Trademark	
1. Name of conveying party(ies)/Execution Date(s): Mentor Graphics (Deutschland) GmbH JUL 10 7006 Name: Mentor Graphics Corp.				≣ET	
1. Name of conveying party(les) Execution Date(s) O6/15/O6 Additional name of conveying party(les) Name: Mentor Graphics Corp. Internal Address: Street Address: 38005 SW Boechman Road State: Oregon Country: USA Zip: 97070:7777 Country: USA Zip: 97070:7777 Additional name of conveying partyles) attached? Yes No State: Oregon Country: USA Zip: 97070:7777 Additional Name(s) & address(es) attached? Yes No Name: Mentor Graphics Corp. Internal Address: Street Address: 38005 SW Boechman Road State: Oregon Country: USA Zip: 97070:7777 Additional Name(s) & address(es) attached? Yes No Name: Additional number(s) This document is being filed together with a new application B. Patent No.(s) Patent No.(s) Patent No.(s) State: Oregon Country: USA Zip: 97070:7777 Additional number(s) Additional numbers attached? Yes No No Name: Additional numbers attached? Yes No Name: Additional numbers attached? Yes No Name: Address: Banger & Witcoff, LTD. Authorized to be charged to deposit account City: Washington State: DC Zip: 20001 State: DC Zip: Zip: Zip: Zip: Zip: Zip: Zip: Zip:	To the Director of the U.S. Patents		<u>751</u>	d documents or the new address(es) below.	
Internal Address: Street A		ecution V ate(s):	\		
3. Nature of conveyance: Assignment		TRADELLINES.	y 		
Assignment		ittached? ∐ Yes ⊠ No	Street Addre	ess: 38005 SW Boechman Road	
Government Interest Assignment Gountry: USA Zip: 97070-7777 Additional Name(s) & address(es) attached? Yes N 4. Application number(s) or patent number(s): A. Patent Application No.(s) Inis document is being filed together with a new application B. Patent No.(s) Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Christopher L. McKee Internal Address: Banner & Witcoff. LTD. 11 th Floor Street Address: 1001 G Street, NW City: Washington State: Oce Deposit Account Number 19-0733		☐ Merger	City: Wilson	rille	
Country: USA Zip: 97070-77777 Additional Name(s) & address(es) attached? Yes N	<u> </u>	·	State: Orego	n	
Additional Name(s) & address(es) attached?		-		Country: USA Zip: <u>97070-7777</u>	
Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Christopher L. McKee Internal Address: Banner & Witcoff, LTD. 11 th Floor Street Address: 1001 G Street, NW City: Washington State: DC Fax Number: 202-824-3001 Fax Number: 202-824-30		•	Additional Na	ame(s) & address(es) attached? ☐ Yes 🛛 N	
concerning this document should be mailed: Name: Christopher L. McKee Internal Address: Banner & Witcoff, LTD.	10/301,461	Additional numbers atta	ached? Yes	s ⊠ No	
Name: Christopher L. McKee Internal Address: Banner & Witcoff, LTD. Authorized to be charged by credit card Authorized to be charged to deposit account City: Washington State; DC			6. Total num	nber of applications and patents involved: 1	
Authorized to be charged to deposit account Street Address: 1001 G Street, NW	Name: Christopher L. McKee		7. Total fee	(37 CFR 1.21(h) & 3.41) \$40	
Street Address: 1001 G Street, NW	Internal Address: Banner & Witcoff, LT	D.	☐ Auth	orized to be charged by credit card	
None required (government interest not affecting title	11 th Floor			orized to be charged to deposit account	
City: Washington State: DC	Street Address: 1001 G Street, NW		☐ Encl	osed	
State: DC Zip: 20001 Phone Number: 202-824-3000 Fax Number: 202-824-3001 Email Address: Authorized User Name Christopher L. McKee 9. Signature: July 10, 2006 Christopher L. McKee Total number of pages including cover sheet, attachments, and documents Name of Person Signing 1. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number 19-0733 Authorized User Name Christopher L. McKee Total number of pages including cover sheet, attachments, and documents Amme of Person Signing 1. Credit Card Last 4 Numbers			☐ None	e required (government interest not affecting title	
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Phone Number: 202-824-3001 Fax Number: 202-824-3001 Email Address: b. Deposit Account Number 19-0733 Authorized User Name Christopher L. McKee 9. Signature: July 10, 2006 Christopher L. McKee Total number of pages including cover sheet, attachments, and documents Name of Person Signing 10501461 Name of Person Signing Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:	State: DC Z	p: <u>20001</u>			
Email Address: 9. Signature: Christopher L. McKee Christopher L. McKee Total number of pages including cover sheet, attachments, and documents Name of Person Signing Booth Authorized User Name Christopher L. McKee Total number of pages including cover sheet, attachments, and documents Authorized User Name Christopher L. McKee Total number of pages including cover sheet, attachments, and documents Authorized User Name Christopher L. McKee	Phone Number : 202-824-3000		v		
9. Signature : Signature July 10, 2006 Christopher L. McKee Total number of pages including cover sheet, attachments, and documents Name of Person Signing B021 40.00 DA Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:		7001/1			
Christopher L. McKee Signature Christopher L. McKee Total number of pages including cover sheet, attachments, and documents Sheet, attachments, and documents Name of Person Signing BO21 40.00 DA Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:	Email Address,		/	Authorized User Name Christopher L. McKee	
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PATENT REEL: 018049 FRAME: 0761

CONFIRMATION OF ASSIGNMENT

WHEREAS, I,

Hans Erich MULTHAUP, of Am Wegacker 3, 85235 Odelzhausen GERMANY, am one of three joint inventors of inventions described in a patent application entitled:

SYSTEM AND METHOD OF CLOCKING AN IP CORE DURING A DEBUGGING OPERATION,

said application having been filed under the Patent Cooperation Treaty (PCT) on January 18, 2002 and assigned International Application No. PCT/EP02/00503, and for which a U.S. national phase application was filed on July 14, 2004 and assigned application Serial No. 10/501,461.

WHEREAS, MENTOR GRAPHICS (DEUTSCHLAND) GMBH, a corporation organized under the laws of GERMANY, having a place of business at Arnulfstrasse 201, 80634, München, Germany, desires to acquire full and exclusive interest therein:

NOW, THEREFORE, in view of exchanged good and valuable consideration, the receipt of which is hereby acknowledged, I, the inventor identified above and signing below, hereby confirm the sale and assignment to MENTOR GRAPHICS (DEUTSCHLAND) GMBH, of all my rights and title to said invention, patent application and derivative patent and like rights throughout the world, including all patent priority rights, the right to file and prosecute international applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; and all related applications thereof including without limitation divisions, continuations, reexaminations, reissues and extensions thereof, and to receive all letters patent and like rights granted thereon, to be held and enjoyed by MENTOR GRAPHICS (DEUTSCHLAND) GMBH for its own use and benefit, and for its successors and assigns to the full end of the term for which patent may be granted in any country, as fully and entirely as the same would have been held by me had this assignment and sale not been made, and covenant that I have full right so to do and that I have not executed and will not execute any agreement or do anything in conflict herewith, and agree that I will communicate to MENTOR GRAPHICS (DEUTSCHLAND) GMBH, or its successors and assigns, any facts

Page 1 of 3

10 jau 2006

Date

known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all documents respecting such applications, make all rightful oaths, and do everything possible to aid MENTOR GRAPHICS (DEUTSCHLAND) GMBH, its successors and assigns to obtain and enforce proper patent protection for said invention in any country.

I hereby grant the assignee and its lawful agent the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

Executed on the date opposite my signature below.

y, \$

ASSIGNMENT

WHEREAS, MENTOR GRAPHICS (DEUTSCHLAND) GMBH having acquired all of Mr. Hans Erich Multhaup's rights and full title to the invention, patent application, and patent rights identified in the above Confirmation of Assignment; and

WHEREAS, Mentor Graphics Corp, a corporation organized under the laws of the State of Oregon, having a place of business at 8005 SW Boeckman Road, Wilsonville, Oregon, USA, desires to acquire a full and exclusive interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, MENTOR GRAPHICS (DEUTSCHLAND) GMBH hereby sells and assigns and to Mentor Graphics Corp., all rights and title to said invention, patent application and derivative patent and like rights throughout the world, including all patent priority rights, the right to file and prosecute international applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; and all related applications thereof including without limitation divisions, continuations, reexaminations, reissues and extensions thereof, and to receive

Page 2 of 3

all letters patent and like rights granted thereon to be held and enjoyed by Mentor Graphics Corp., for its own use and benefit, and for its successors and assigns to the full end of the term for which patent or like rights may be granted in any country, as fully and entirely as the same would have been held by MENTOR GRAPHICS (DEUTSCHLAND) GMBH had this assignment and sale not been made, and MENTOR GRAPHICS (DEUTSCHLAND) GMBH covenants that it has the full right so to do and that it has not executed and will not execute any agreement or do anything in conflict herewith, and agrees that it will communicate to Mentor Graphics Corp., or its successors and assigns, any facts known to it respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all documents respecting such applications, make all rightful oaths, and do everything possible to aid Mentor Graphics Corp., its successors and assigns to obtain and enforce proper patent protection for said invention in any country.

Mentor Graphics Corp. hereby grants the assignee and its lawful agent the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office or other national or regional patent office for submitting and recording this document.

Executed on the date opposite my respective signature below.

for MENTOR GRAPHICS (DEUTSCHLAND) GMBH

1 Ch D.K.

Printed Name

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RECORDED: 07/10/2006

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