

01-28-2002



101963211

U.S. Department of Commerce

Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

|   |  |   |   |  |                                    |
|---|--|---|---|--|------------------------------------|
| <p>1. Name of conveying party(ies):<br/><br/>Stephan Rosner, Jörg Winkler, Ralf Flemming and Stephen T. Novak</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>3. Nature of conveyance:<br/> <input checked="" type="checkbox"/> Assignment<br/> <input type="checkbox"/> Security Agreement<br/> <input type="checkbox"/> Other<br/> <input type="checkbox"/> Merger<br/> <input type="checkbox"/> Change of Name         </p> <p>Execution Date: October 24, 2001; October 25, 2001; November 26, 2001; and October 24, 2001, respectively</p>  | <p>2. Name and address of receiving party(ies):<br/><br/>Name: Advanced Micro Devices, Inc.</p> <p>Internal Address:</p> <p>Street Address: 5204 E. Ben White Blvd.</p> <p>City: Austin State: TX Zip: 78741</p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>   |   |   |  |                                    |
| <p>4. Application number(s) or registration number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is:</p> <table style="width:100%;"> <tr> <td style="width:50%;">A. Patent Application No.(s):<br/><br/>09/904,748</td> <td style="width:50%;">B. Patent No.(s):</td> </tr> </table> <p style="text-align: right;">Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>   |  | A. Patent Application No.(s):<br><br>09/904,748                                   | B. Patent No.(s):                                       |  |                                    |
| A. Patent Application No.(s):<br><br>09/904,748   | B. Patent No.(s):  |   |   |  |                                    |
| <p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Danny L. Williams<br/>Williams, Morgan &amp; Amerson, P.C.<br/>7676 Hillmont, Suite 250</p> <p>City: Houston State: Texas Zip: 77040</p>  | <p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 C.F.R. 3.41)----- \$ <u>40.00</u><br/> <input type="checkbox"/> Enclosed<br/> <input checked="" type="checkbox"/> Authorized to be charged to deposit account         </p> <p>8. Deposit account number: <u>01-0365/DE0031</u><br/>(Attach duplicate copy of this page if paying by deposit account)</p> |   |   |  |                                    |
| <p><b>DO NOT USE THIS SPACE</b></p>   |  |   |   |  |                                    |
| <p>9. Statement and signature.<br/><i>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.</i></p> <table style="width:100%;"> <tr> <td style="width:50%; text-align: center;"> <p>Danny L. Williams</p> <p>_____<br/>Name of Person Signing, Reg. No. 31,892</p> </td> <td style="width:50%; text-align: center;"> <p><i>Danny L. Williams</i><br/>_____<br/>Signature</p> </td> </tr> <tr> <td></td> <td style="text-align: center;"> <p>11/26/01<br/>_____<br/>Date</p> </td> </tr> </table> <p style="text-align: right;">Total number of pages including cover sheet, attachments and documents: <u>10</u></p> |  | <p>Danny L. Williams</p> <p>_____<br/>Name of Person Signing, Reg. No. 31,892</p> | <p><i>Danny L. Williams</i><br/>_____<br/>Signature</p> |  | <p>11/26/01<br/>_____<br/>Date</p> |
| <p>Danny L. Williams</p> <p>_____<br/>Name of Person Signing, Reg. No. 31,892</p>   | <p><i>Danny L. Williams</i><br/>_____<br/>Signature</p>  |   |   |  |                                    |
|   | <p>11/26/01<br/>_____<br/>Date</p>   |   |   |  |                                    |

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents and Trademarks, Box Assignment  
Washington, D.C. 20231

**CERTIFICATE OF MAILING**  
37 C.F.R 1.8

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date below:

09904748

|                   |   |
|-------------------|---|
| November 26, 2001 | <p><i>Mary Paul</i><br/>_____<br/>Signature</p> |
| Date              |   |

01/25/2002 DBYRNE 00000103 010365  
01 FC:581 40.00 CH

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to ADVANCED MICRO DEVICES, INC. (the "Assignee"), a corporation of Delaware, having a place of business at 5204 East Ben White Boulevard, Austin, Texas 78741, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent Serial No. **09/904,748** which has been filed on **July 13, 2001** and is entitled "**METHOD AND APPARATUS FOR ACCESSING MEMORIES HAVING A TIME-VARIANT RESPONSE OVER A PCI BUS BY USING TWO-STAGE DMA TRANSFERS,**" such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: Stephan Rosner  
STEPHAN ROSNER

Date: 10/24/01

WITNESSES FOR STEPHAN ROSNER:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
JÖRG WINKLER

Date: \_\_\_\_\_

WITNESSES FOR JÖRG WINKLER:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
RALF FLEMMING

Date: \_\_\_\_\_

WITNESSES FOR RALF FLEMMING:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
STEPHEN T. NOVAK

Date: \_\_\_\_\_

WITNESSES FOR STEPHEN T. NOVAK:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

PATENT  
FILE NO. 2000.066300/DE0031

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to ADVANCED MICRO DEVICES, INC. (the "Assignee"), a corporation of Delaware, having a place of business at 5204 East Ben White Boulevard, Austin, Texas 78741, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent Serial No. **09/904,748** which has been filed on **July 13, 2001** and is entitled "**METHOD AND APPARATUS FOR ACCESSING MEMORIES HAVING A TIME-VARIANT RESPONSE OVER A PCI BUS BY USING TWO-STAGE DMA TRANSFERS,**" such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: \_\_\_\_\_  
STEPHAN ROSNER

Date: \_\_\_\_\_

WITNESSES FOR STEPHAN ROSNER:

\_\_\_\_\_  
WITNESS


Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

FILE NO. 2000.066300/DE0131

Signature: \_\_\_\_\_

  
JÖRG WINKLER

Date: \_\_\_\_\_

10/25/01

WITNESSES FOR JÖRG WINKLER:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

RALF FLEMMING

Date: \_\_\_\_\_

WITNESSES FOR RALF FLEMMING:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

STEPHEN T. NOVAK

Date: \_\_\_\_\_

WITNESSES FOR STEPHEN T. NOVAK:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

**ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to ADVANCED MICRO DEVICES, INC. (the "Assignee"), a corporation of Delaware, having a place of business at 5204 East Ben White Boulevard, Austin, Texas 78741, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent Serial No. 09/904,748 which has been filed on July 13, 2001 and is entitled "**METHOD AND APPARATUS FOR ACCESSING MEMORIES HAVING A TIME-VARIANT RESPONSE OVER A PCI BUS BY USING TWO-STAGE DMA TRANSFERS,**" such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: \_\_\_\_\_  
STEPHAN ROSNER

Date: \_\_\_\_\_

WITNESSES FOR STEPHAN ROSNER:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
JÖRG WINKLER

Date: \_\_\_\_\_

WITNESSES FOR JÖRG WINKLER:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

Signature: Ralf Fleming  
RALF FLEMMING

Date: 11/26/01

WITNESSES FOR RALF FLEMMING:

Andreas Huschke  
WITNESS

Date: 11/26/01

Lutz Dathe  
WITNESS

Date: 11/26/2001

Signature: \_\_\_\_\_  
STEPHEN T. NOVAK

Date: \_\_\_\_\_

WITNESSES FOR STEPHEN T. NOVAK:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to ADVANCED MICRO DEVICES, INC. (the "Assignee"), a corporation of Delaware, having a place of business at 5204 East Ben White Boulevard, Austin, Texas 78741, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent Serial No. **09/904,748** which has been filed on **July 13, 2001** and is entitled "**METHOD AND APPARATUS FOR ACCESSING MEMORIES HAVING A TIME-VARIANT RESPONSE OVER A PCI BUS BY USING TWO-STAGE DMA TRANSFERS,**" such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: \_\_\_\_\_  
STEPHAN ROSNER

Date: \_\_\_\_\_

WITNESSES FOR STEPHAN ROSNER:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_



Signature: \_\_\_\_\_  
JÖRG WINKLER

Date: \_\_\_\_\_

WITNESSES FOR JÖRG WINKLER:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
RALF FLEMMING

Date: \_\_\_\_\_

WITNESSES FOR RALF FLEMMING:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

Signature:  \_\_\_\_\_  
STEPHEN T. NOVAK

Date: 10/24/2001

WITNESSES FOR STEPHEN T. NOVAK:

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_

\_\_\_\_\_  
WITNESS

Date: \_\_\_\_\_