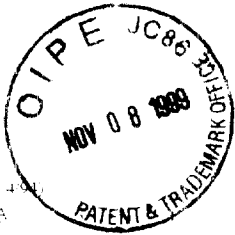


NRD
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11-15-1999



101199252

FORM PTO-1595
Rev. 1-99
JTB No. 0651-001 (rev. 4-94)
ocket No. ANDA-82FA

ET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>Michael R. CONBOY Patrick J. RYAN Elfido COSS JR.</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>Advanced Micro Devices, Inc. 5204 East Ben White Blvd. Austin, TX 78741</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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3. Nature of conveyance:

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other	

Execution Date: October 22, 1999

4. Application number(s) or patent number(s): 09/387,175

If this document is being filed together with a new application, the execution date of the application is:

<p>A. Patent Application No.(s)</p> <p>09/387,175</p>	<p>B. Patent No.(s)</p>
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<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Robert J. Crawford Address: CRAWFORD PLLC 1270 Northland Drive Suite 390 St. Paul, MN 55120</p>	<p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$40</p> <p><input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 01-0365 (TT2225)</p> <p>8. Please charge any additional fees or credit any overpayments to our Deposit account number:</p>
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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.

Robert J. Crawford
Name of Person Signing

November 3, 1999
Date

Total number of pages including cover sheet, attachments, and document: 9

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of information systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, D.C. 20503.



PATENT
REEL: 010370 FRAME: 0477

ASSIGNMENT

WHEREAS, I/we: Michael R. Conboy, residing at 3102 Sunland Drive, Austin, Texas, 78748, Patrick J. Ryan, residing at 1830 Willow Creek Circle, Eugene, Oregon, 97402, and Elfido Coss, residing at 14318 Clarno Drive, Austin, Texas 78749, made certain new and useful inventions and improvements for which I/we herewith file an application for which Letters Patent of the United States; which is **Real Time Decision Making System for Reduction of Time Delays in an Automated Material Handling System** (Atty Docket No. AMDA.382PA/TT2225).

AND WHEREAS, Advanced Micro Devices, a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 5204 East Ben White Blvd., Mail Stop 608, Austin, Texas 78741 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

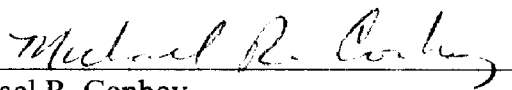
NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, I/we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I/we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, I/we do hereby agree that I/we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me/us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions,

applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore I/we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me/us and that full right to convey the same as herein expressed is possessed by me/us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 14 day of OCTOBER 1999.

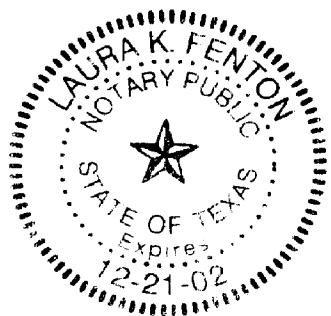


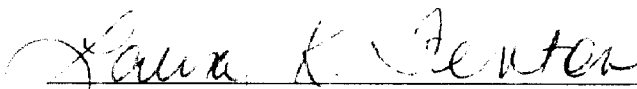
Michael R. Conboy

STATE OF TEXAS)
) ss.
COUNTY OF TRAVIS)

On this 14 day of October, 1999, before me personally appeared Michael R. Conboy, known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]





Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 1999.

Separately Submitted

Patrick J. Ryan

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 1999, before me personally appeared Patrick J. Ryan, to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

Docket No. AMDA.382PA (TT2225)

ASSIGNMENT

WHEREAS, I/we: Michael R. Conboy, residing at 3102 Sunland Drive, Austin, Texas, 78748, Patrick J. Ryan, residing at 3148 DACY LANE, KYLE, TX 78640, and Elfido Coss, Jr. residing at 14318 Clarno Drive, Austin, Texas 78749, made certain new and useful inventions and improvements for which I/we herewith file an application for which Letters Patent of the United States, which is **Real Time Decision Making System for Reduction of Time Delays in an Automated Material Handling System** (Atty Docket No. AMDA.382PA/TT2225).

AND WHEREAS, Advanced Micro Devices, a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 5204 East Ben White Blvd., Mail Stop 608, Austin, Texas 78741 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, I/we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I/we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, I/we do hereby agree that I/we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me/us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions,

applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore I/we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me/us and that full right to convey the same as herein expressed is possessed by me/us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 1999.

Michael R. Conboy

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 1999, before me personally appeared Michael R. Conboy, known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 15 day of OCTOBER, 1999.

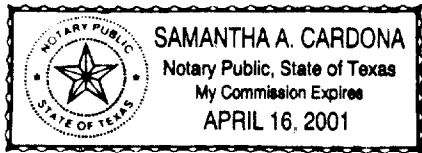
Patrick J. Ryan
Patrick J. Ryan

STATE OF Texas)
COUNTY OF TARRANT) ss.

On this 15 day of October, 1999, before me personally appeared Patrick J. Ryan, to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth

[SEAL]

Samantha A. Cardona
Notary Public



IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 1999.

Elfido Coss

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 1999, before me personally appeared Elfido Coss, to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public