505166374 10/30/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5213142

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--|----------------|
| MENTOR GRAPHICS CORPORATION, META SYSTEMS DIVISION | 04/03/2008 |

RECEIVING PARTY DATA

| Name: | MENTOR GRAPHICS CORPORATION |
|-----------------|-----------------------------|
| Street Address: | 8005 S.W. BOECKMAN ROAD |
| City: | WILSONVILLE |
| State/Country: | OREGON |
| Postal Code: | 97070 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13487542 |

CORRESPONDENCE DATA

Fax Number: (407)243-3175

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 407-736-2472

Email: ipdadmin.us@siemens.com

Correspondent Name: MENTOR GRAPHICS C/O SIEMENS CORPORATION

Address Line 1: SUITE 230, 3501 QUADRANGLE BLVD

Address Line 4: ORLANDO, FLORIDA 32817

| ATTORNEY DOCKET NUMBER: | 2008P98457US01 |
|-------------------------|----------------|
| NAME OF SUBMITTER: | ANN HICKEY |
| SIGNATURE: | /ANN HICKEY/ |
| DATE SIGNED: | 10/30/2018 |

Total Attachments: 5

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PATENT 505166374 REEL: 047356 FRAME: 0385

ASSIGNMENT AND CONFIRMATION OF ASSIGNMENT

WHEREAS, we,

Eric DURAND, of city of La Ville Du Bois, Country of France;

Grégoire BRUNOT of city of Montrouge, Country of France;

Estelle REYMOND, of city of Orsay, Country of France and

Laurent BUCHARD, of city of Les Ulis, Country of France,

have invented a certain invention, entitled:

RESOURCE REMAPPING IN A HARDWARE EMULATION ENVIRONMENT,

filed on the February 27, 2008 and given U.S. Patent Application No. 12/038,770; and

WHEREAS, MENTOR GRAPHICS CORPORATION, META SYSTEMS DIVISION

(Employer) a corporation organized under the laws of France, having a place of business at 3

Avenue du Canada, Bâtiment Sigma, COURTABOEUF CEDEX 91975 (FR) 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, we identified above and signing below hereby confirm the sale

and assignment to Employer of all rights and title to said invention including the above identified

United States Patent Application and derivative patent(s) 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

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PATENT REEL: 047356 FRAME: 0386

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 Employer 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 this or any foreign country, as fully and entirely as the same would have been held by

us had this assignment and sale not been made, and covenant that we have full right so to do and

that we have not executed and will not execute any agreement or do anything in conflict herewith,

and agree that we will communicate to Employer, or its successors and assigns, any facts known

to us 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 Employer, its successors and assigns to obtain and enforce proper patent protection for said

invention in this or any foreign country.

We hereby grant Employer 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.

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PATENT REEL: 047356 FRAME: 0387 Executed on the date opposite our respective signatures below.

| | Ethera | 03-28-2008 |
|-------------------------|---|----------------|
| Eric DURAND | Inventor Signature | Date |
| | | 03.78.7008 |
| Grégoire BRUNO T | Inventor Signature | Date |
| | <u>e</u> | 03-28-2008 |
| Estelle REYMOND | Inventor Signature | Date |
| | J. S. | 03 - 28 - 2008 |
| Laurent BUCHARD | Inventor Signature | Date |

ASSIGNMENT

WHEREAS MENTOR GRAPHICS CORPORATION, META SYSTEMS

DIVISION (EMPLOYER) having acquired all rights and full title to the invention, patent
application, and patents rights identified in the above Confirmation of Assignment; and

WHEREAS, MENTOR GRAPHICS CORPORATION, a corporation organized under the laws of Oregon, USA, having a place of business at 8005 SW Boeckman Road,

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Wilsonville, Oregon, USA, (ASSIGNEE) desires to acquire a full and exclusive interest therein:

NOW, THEREFORE, for good an valuable consideration, the receipt of which is hereby acknowledged, EMPLOYER hereby sells and assigns to ASSIGNEE, all rights and title to said invention, patent application and derivative patent and like rights throughout the world, including all parent 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 ASSIGNEE, 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 EMPLOYER had this assignment and sale not been made, and EMPLOYER covenants that it has the full right to do so 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 ASSIGNEE, or its successors or 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 ASSIGNEE, its successors and assigns to obtain and enforce proper patent protection for said invention in any country.

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EMPLOYER hereby grants 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 EMPLOYER/assignor:

| | | • |
|------|----|--------|
| | | |
| Mark | A. | Porter |

Printed Name

Senior Intellectual Property Counsel

Title

3 APR OR

Date

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