PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3162301

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT OHANNESSIAN JR.	01/24/2014
MICHAEL ALAN FETTERMAN	11/04/2013
OLIVIER GIROUX	11/01/2013
JACK H. CHOQUETTE	11/04/2013
XIAOGANG QIU	11/05/2013
SHIRISH GADRE	11/04/2013
MEENARADCHAGAN VISHNU	10/31/2013

RECEIVING PARTY DATA

Name:	NVIDIA Corporation
Street Address:	2701 San Tomas Expressway
City:	Santa Clara
State/Country:	CALIFORNIA
Postal Code:	95050

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14171671

CORRESPONDENCE DATA

Fax Number: (408)971-4660

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: 408-971-2573

Email: anthony@zilkakotab.com

Correspondent Name: ZILKA-KOTAB, PC **Address Line 1:** P.O. BOX 721120

Address Line 4: SAN JOSE, CALIFORNIA 95172-1120

ATTORNEY DOCKET NUMBER:	NVIDP885/AU-13-0294-US1
NAME OF SUBMITTER:	STEPHANIE L. WINNER
SIGNATURE:	/Stephanie L. Winner/
DATE SIGNED:	12/24/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).
	PAILNI

503115693 REEL: 034584 FRAME: 0450

Total Attachments: 7 source=NVIDP885_Signed Formals#page1.tif source=NVIDP885_Signed Formals#page2.tif source=NVIDP885_Signed Formals#page3.tif source=NVIDP885_Signed Formals#page4.tif source=NVIDP885_Signed Formals#page5.tif source=NVIDP885_Signed Formals#page6.tif source=NVIDP885_Signed Formals#page7.tif

PATENT REEL: 034584 FRAME: 0451

COMBINED DECLARATION (37 C.F.R. 1.63) AND ASSIGNMENT FOR UTILITY APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention: SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR IMPLEMENTING SOFTWARE-BASED SCOREBOARDING

As the below named inventor, I hereby declare that:
This declaration is directed to the attached application, or (if following box is checked) United States application or PCT international application number, filed on
The above-identified application was made or authorized to be made by me.
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims.
I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, CFR § 1.56.
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1) Sell(s), assign(s) and transfer(s) to <u>NVIDIA Corporation</u> , a Delaware corporation having a place of business at 2701 San Tomas Expressway, Santa Clara, California 95050, (hereinafter referred to as ("ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
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4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
5) Warrant and represent that I have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of imprisonment of not more than five (5) years, or both.
Signed on the date indicated beside my signature.
Legal Name of Inventor: Robert Ohannessian, Jr.
Signature:
·

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Signed on the date indicated beside my signature.
Legal Name of Inventor: Michael Alan Fetterman
Signature: Mull alm Totte Date: Nov 4, 2013

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Signed on the date indicated beside my signature.
Legal Name of Inventor: Olivier Giroux Signature: Date: /////3

COMBINED DECLARATION (37 C.F.R. 1.63) AND ASSIGNMENT FOR UTILITY APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

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Signed on the date indicated beside my signature.
Legal Name of Inventor: Jack H. Choquette
Signature: Date: 11/4/13

COMBINED DECLARATION (37 C.F.R. 1.63) AND ASSIGNMENT FOR UTILITY APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

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Signed on the date indicated beside my signature.
Legal Name of Inventor: Xiaogang Qiu Signature:

COMBINED DECLARATION (37 C.F.R. 1.63) AND ASSIGNMENT FOR UTILITY APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

 $\begin{tabular}{l} \textbf{Title of Invention:} & \underline{\textbf{SYSTEM, METHOD, AND COMPUTER PROGRAM PRODUCT FOR IMPLEMENTING SOFTWARE-} \\ & \underline{\textbf{BASED SCOREBOARDING}} \end{tabular}$

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Signed on the date indicated beside my signature.
Legal Name of Inventor: Shirish Gadre Signature: Date: 1/4/2013

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1) Sell(s), assign(s) and transfer(s) to NVIDIA Corporation, a Delaware corporation having a place of business at 2701 San Tomas Expressway, Santa Clara. California 95050, (hereinafter referred to as ("ASSIGNEE"), the entire right title and interest in any and al improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application. 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE. 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications. 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assign and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns. 5) Warrant and represent that I have not entered, and will not enter into any assignment, contract, or understanding that conflicts with assignment. 1 hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of imprisonment of not more than five (5) years, or both. Signed on the date indicated beside my signature. Legal Name, of Inventor: Meenaradchagan Vishnu	Whereas, I the undersigned inventor have invented certain new and useful improvements as set forth in the above-identified paten application and further identified by the Attorney Docket Number provided above in the header of this document.
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division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE. 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications. 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assign and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns. 5) Warrant and represent that I have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of imprisonment of not more than five (5) years, or both. Signed on the date indicated beside my signature. Legal Name of Inventor: Meenaradchagan Vishnu	Expressway, Santa Clara, California 95050, (hereinafter referred to as ("ASSIGNEE"), the entire right title and interest in any and al improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the
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Signed on the date indicated beside my signature. Legal Name of Inventor: Meenaradchagan Vishnu	
Legal Name of Inventor: Meenaradchagan Vishnu	
A L 1 2012	Signed on the date indicated beside my signature.
	A 6 1 2012

RECORDED: 12/24/2014

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