

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>ZIYAD HAKURA</td><td>08/12/2013</td></tr><tr><td>PIERRE SOUILLOT</td><td>11/04/2013</td></tr><tr><td>CYNTHIA ALLISON</td><td>08/29/2013</td></tr><tr><td>DALE KIRKLAND</td><td>08/20/2013</td></tr></tbody></table>	Name	Execution Date	ZIYAD HAKURA	08/12/2013	PIERRE SOUILLOT	11/04/2013	CYNTHIA ALLISON	08/29/2013	DALE KIRKLAND	08/20/2013	
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ZIYAD HAKURA	08/12/2013										
PIERRE SOUILLOT	11/04/2013										
CYNTHIA ALLISON	08/29/2013										
DALE KIRKLAND	08/20/2013										
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											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13967233</td></tr></tbody></table>	Property Type	Number	Application Number:	13967233							
Property Type	Number										
Application Number:	13967233										
CORRESPONDENCE DATA											
Fax Number:	(713)623-4846										
Phone:	7136234844										
Email:	DWEDDERBURN@PATTERSONSHERIDAN.COM, PSDOCKETING@PATTERSONSHERIDAN.COM										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	PATTERSON & SHERIDAN, L.L.P.										
Address Line 1:	3040 POST OAK BLVD										
Address Line 2:	SUITE 1500										
Address Line 4:	HOUSTON, TEXAS 77056										
ATTORNEY DOCKET NUMBER:	NVDA/SC-13-0109-US3										
NAME OF SUBMITTER:	/JOHN C. CAREY										

Signature:	/John C. Carey/
Date:	11/21/2013
Total Attachments: 8 source=NVDA_SC-13-0109-US3_Executed_Assignment#page1.tif source=NVDA_SC-13-0109-US3_Executed_Assignment#page2.tif source=NVDA_SC-13-0109-US3_Executed_Assignment#page3.tif source=NVDA_SC-13-0109-US3_Executed_Assignment#page4.tif source=NVDA_SC-13-0109-US3_Executed_Assignment#page5.tif source=NVDA_SC-13-0109-US3_Executed_Assignment#page6.tif source=NVDA_SC-13-0109-US3_Executed_Assignment#page7.tif source=NVDA_SC-13-0109-US3_Executed_Assignment#page8.tif	

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Ziyad S. HAKURA, residing at
704 Tennyson Drive
Gilroy, CA 95020

Pierre SOUILLOT, residing at
1413 Bonita Avenue
Berkeley, CA 94709

Cynthia ALLISON, residing at
154 Kensington Drive
Madison, AL 35758

Dale L. KIRKLAND, residing at
106 Spring Water Drive
Madison, AL 35758

(hereinafter referred to as Assignors), have invented a certain invention entitled:

DATA STRUCTURES FOR EFFICIENT TILED RENDERING

enclosed herewith or for which application for Letters Patent in the United States under Application No. 13/967,233, filed on August 14, 2013, and

WHEREAS, NVIDIA Corporation, a corporation of the State of Delaware, having a place of business at 2701 San Tomas Expressway, Santa Clara, CA 95050 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, conventional,

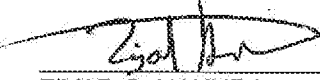
divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. I hereby authorize and request my attorneys, Patterson & Sheridan LLP, of 3040 Post Oak Blvd, Suite 1500, Houston Texas 77056, to insert above in parentheses (Application No. and Filing Date) the filing date and application number of said application when known.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u>August 12th</u> , 2013	 _____ ZIYAD S. HAKURA
2)	_____, 2013	_____ PIERRE SOUILLOT
3)	_____, 2013	_____ CYNTHIA ALLISON
4)	_____, 2013	_____ DALE L. KIRKLAND

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ZIYAD S. HAKURA

2) 11/04, 2013

PIERRE SOUILLLOT

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DALE L. KIRKLAND

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1)	_____	, 2013	_____	ZIYAD S. HAKURA
2)	_____	, 2013	_____	PIERRE SOUILLLOT
3)	<i>Aug 29</i>	, 2013	<i>Cynthia Allison</i>	CYNTHIA ALLISON
4)	_____	, 2013	_____	DALE L. KIRKLAND

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2) _____, 2013
PIERRE SOUILLOT

3) _____, 2013
CYNTHIA ALLISON

4) Aug 20, 2013

DALE L. KIRKLAND