

## PATENT ASSIGNMENT

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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>Jerome F. Duluk Jr.</td> <td>12/20/2012</td> </tr> <tr> <td>Jesse David Hall</td> <td>01/27/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jerome F. Duluk Jr.	12/20/2012	Jesse David Hall	01/27/2013
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Jerome F. Duluk Jr.	12/20/2012						
Jesse David Hall	01/27/2013						
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>13723972</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13723972		
Property Type	Number						
Application Number:	13723972						
CORRESPONDENCE DATA							
Fax Number:	7136234846						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	713-623-4844						
Email:	DWEDDERBURN@PATTERSONSHERIDAN.COM, PSDOCKETING@PATTERSONSHERIDAN.COM						
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-09-0101US						
NAME OF SUBMITTER:	JOHN C. CAREY						
Total Attachments: 4 source=NVDA_SC090101US_ASG_EF#page1.tif source=NVDA_SC090101US_ASG_EF#page2.tif source=NVDA_SC090101US_ASG_EF#page3.tif source=NVDA_SC090101US_ASG_EF#page4.tif							

OP \$40.00 13723972

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

**Jerome F. DULUK, Jr.**, residing at  
950 California Avenue  
Palo Alto, California 95303

**Jesse David HALL**, residing at  
2352 Kay Drive  
Santa Clara, California 95050

(hereinafter referred to as Assignor), has invented a certain invention entitled:

### **PROGRAMMABLE BLENDING VIA MULTIPLE PIXEL SHADER DISPATCHES**

enclosed herewith or for which application for Letters Patent in the United States under Application No. 13/723,972, filed on December 21, 2012, and

WHEREAS, NVIDIA CORPORATION, a Corporation of the State of Delaware having a place of business at 2701 San Tomas Expressway, Santa Clara, California 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 Assignor, 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.

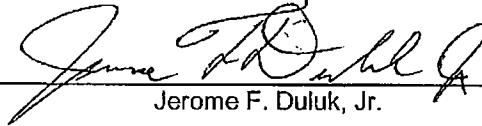
3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

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) Dec 20, 2012

  
\_\_\_\_\_  
Jerome F. Duluk, Jr.

2) \_\_\_\_\_, 2012

\_\_\_\_\_  
Jesse David HALL

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WHEREAS:

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

1) \_\_\_\_\_, 2013 \_\_\_\_\_  
Jerome F. Duluk, Jr.

2) Jan. 27, 2013 \_\_\_\_\_  
*Jesse David Hall*  
Jesse David HALL