

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4968988

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| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the TO ADD MIDDLE INITIAL OF FIRST INVENTOR previously recorded on Reel 045615 Frame 0094. Assignor(s) hereby confirms the ASSIGNMENT. |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ZIYAD S. HAKURA | 09/30/2013 |
| JEROME F. DULUK | 09/30/2013 |
| RECEIVING PARTY DATA | |
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| City: | SANTA CLARA |
| State/Country: | CALIFORNIA |
| Postal Code: | 95050 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15960332 |
| CORRESPONDENCE DATA | |
| Fax Number: | (408)715-1201 |
| <i>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.</i> | |
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| Email: | kacruz@artegislaw.com, algdocketing@artegislaw.com |
| Correspondent Name: | ARTEGIS LAW GROUP, LLP NVIDIA |
| Address Line 1: | 710 LAKEWAY DRIVE, SUITE 185 |
| Address Line 4: | SUNNYVALE, CALIFORNIA 94085 |
| ATTORNEY DOCKET NUMBER: | NVDA/SC-13-0119-USC1 |
| NAME OF SUBMITTER: | JOHN C. CAREY |
| SIGNATURE: | /John C. Carey/ |
| DATE SIGNED: | 05/18/2018 |
| Total Attachments: 4 | |
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| source=NVDASC130119USC1_CORR_Assignment#page3.tif | |



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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1

Stylesheet Version v1.2

| 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 <u>ZIYAD S. HAKURA</u></td><td>09/30/2013</td></tr><tr><td>JEROME F. DULUK, JR.</td><td>09/30/2013</td></tr></tbody></table> | Name | Execution Date | ZIYAD HAKURA <u>ZIYAD S. HAKURA</u> | 09/30/2013 | JEROME F. DULUK, JR. | 09/30/2013 | | | | | |
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| JEROME F. DULUK, JR. | 09/30/2013 | | | | | | | | | | |
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| <table border="1"><tr><td>Name:</td><td>NVIDIA CORPORATION</td></tr><tr><td>Street Address:</td><td>2701 SAN TOMAS EXPRESSWAY</td></tr><tr><td>City:</td><td>SANTA CLARA</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>95050</td></tr></table> | Name: | NVIDIA CORPORATION | Street Address: | 2701 SAN TOMAS EXPRESSWAY | City: | SANTA CLARA | State/Country: | CALIFORNIA | Postal Code: | 95050 | |
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PATENT**REEL: 046835 FRAME: 0217**

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**ATTORNEY DOCKET
NUMBER:**

NVDA/SC130119USC1

NAME OF SUBMITTER:

JOHN C. CAREY

Signature:

/John C. Carey/

Date:

04/23/2018

Total Attachments: 2

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RECEIPT INFORMATION**EPAS ID:** PAT4928468**Receipt Date:** 04/23/2018

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ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

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

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

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

**TWO-PASS CACHE TILE PROCESSING FOR VISIBILITY TESTING IN A
TILE-BASED ARCHITECTURE**

enclosed herewith or for which application for Letters Patent in the United States under
Application No. _____, filed on _____, 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
thereof 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) Sept 30, 2013 
ZIYAD S. HAKURA

2) Sept 30, 2013 
JEROME F. DULUK, JR.