PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| Fred GRUNER | 09/28/2009 |
| Shane KEIL | 09/28/2009 |
| John S. MONTRYM | 09/28/2009 |

RECEIVING PARTY DATA

| Name: | IVIDIA Corporation | | |
|-----------------|--|--|--|
| Street Address: | eet Address: 2701 San Tomas Expressway | | |
| City: | Santa Clara | | |
| State/Country: | CALIFORNIA | | |
| Postal Code: | 95050 | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12568642 |

CORRESPONDENCE DATA

Fax Number: (713)623-4846

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 7136234844

Email: kneil@pattersonsheridan.com
Correspondent Name: Patterson & Sheridan LLP
Address Line 1: 3040 Post Oak Blvd

Address Line 2: Suite 1500

Address Line 4: Houston, TEXAS 77056

NAME OF SUBMITTER: John C. Carey

Total Attachments: 6

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500975407 PATENT REEL: 023300 FRAME: 0165

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> PATENT REEL: 023300 FRAME: 0166

Attorney Docket No. NVDA/SC-09-0278-US2

ASSIGNMENT FOR APPLICATION FOR PATENT. .

WHEREAS:

Fred GRUNER, residing at 210 E. Date St. Brea, CA 92821

Shane KEIL, residing at 1400 Bowe Ave. #405 Santa Clara, CA 95051

John S. MONTRYM, residing at 12660 Zappettini Court Los Altos Hills, CA 94022

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

ERROR DETECTION AND CORRECTION FOR EXTERNAL DRAM

| Application M | rewith | or fo | or which | application | for | Letters | Patent | in | the | United | States | unda |
|---------------|--------|-------|----------|-------------|-----|---------|--------|----|------|---------|--------|-------|
| Application N | 0 | | | filed on | . • | | . and | | ų iÇ | Officed | 319193 | under |
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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,

Attorney Docket No. NVDA/SC-09-0278-US2

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.

- 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.
- 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 W Assignee on | /ITNESS WHEREOF, the said As the dates indicated below. | ssignors have executed and derivered this instrument to said |
|---------------------|--|--|
| 1) | 9/28, 2009 | Fred GRUNER |
| 2) | , 2009 | Shane KEIL |
| 3) | , 2009 | John S. MONTRYM |

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Fred GRUNER, residing at 210 E. Date St. Brea, CA 92821

Shane KEIL, residing at 1400 Bowe Ave. #405 Santa Clara, CA 95051

John S. MONTRYM, residing at 12660 Zappettini Court Los Altos Hills, CA 94022

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

ERROR DETECTION AND CORRECTION FOR EXTERNAL DRAM

| · e | nclosed | herewith | or for | which | application | for | Letters | Patent | in the | United | States | under |
|-------------|-------------|------------|----------|------------|---------------|--------|----------|-----------|----------|-----------|-----------|---------|
| Α | pplication | No | | | _, filed on _ | | | , and | | | | |
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- 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 any application therefore and any Patents granted thereon, including without limitation opposition proceedings,

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- 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.
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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) | , 2009 | |
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| , | ······································ | Fred GRUNER |
| 2) | <u>1/28/69</u> , 2009 | Shane KEIL |
| 3) | , 2009 | John S. MONTRYM |

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Application No._____, filed on _____, and

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ERROR DETECTION AND CORRECTION FOR EXTERNAL DRAM

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| as Application), and the invention disclosed therein (hereinate referred to as invented as model and are discovered by said Assi | |

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| 1) | , 2009 | Fred GRUNER |
|----|-----------------------|-----------------|
| 2) | , 2009 | Shane KEIL |
| 3) | <u> 28 SEP</u> , 2009 | John S. MONTRYM |

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