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Form PTO-1595

(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)



EET

U.S. DEPARTMENT OF
COMMERCE

U.S. Patent and Trademark Office

103146688

To the Honorable Commissioner of Patents and Trademarks, Please receive the attached original documents or copy thereof.

1. Name of conveying party(ies):

Roger L. ALLEN
Nitij MANGALDecember 15, 2005
December 14, 2005

2. Name and address of receiving party(ies)

Name: NVIDIA Corporation

Internal Address:

Street Address: 2701 San Tomas Expressway

City: Santa Clara State: California Zip: 95050

Additional name(s) & address(es) attached? No [X] Yes []

Additional name(s) of conveying party(ies) attached? [] Yes [X] No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other ()

Execution Date: See above

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: December 14, 15, 2005

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Cooley Godward LLP

Internal Address: Patent Group

Street Address: Five Palo Alto Square
3000 El Camino Real

City: Palo Alto State: CA Zip: 94306-2155

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) 40.00

☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number: 03-3117

The Commissioner is hereby authorized to charge any appropriate fees under 37 CFR 3.41 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 03-3117. This paper is submitted in duplicate.

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*William S. Galliani, Reg. 33,885

Name of Person Signing

Signature

December 19, 2005

Date

Total number of pages including cover sheet, attachments, and documents: [5]

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services, Director of the U.S. Patent and Trademark Office

12/23/2005 EAREGAY1 00000016 11313066

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Date of Deposit:

December 19, 2005

Rev. 6/14/2000

Attorney Docket No.: NVID-133/00US
Client Reference No.: P001054

PATENT

ASSIGNMENT
(Joint)

Roger L. ALLEN, residing at 17917 Upper Cherry Lane, Lake Oswego, OR 97034;
Nitij MANGAL, residing at 3421 Granada Avenue #30, Santa Clara, CA 95051 (each referred to as "Assignor") have made an invention(s) (the "Invention(s)") set forth in an application for patent of the United States, entitled:

**APPARATUS AND METHOD FOR SERIAL SAVE AND RESTORE OF GRAPHICS
PROCESSING UNIT STATE INFORMATION**

and which is a:

- (1) ☐ provisional application
 - (a) ☐ to be filed herewith; or
 - (b) ☐ bearing Application No. , and filed on ; or
- (2) ☒ non-provisional application
 - (a) ☒ to be filed herewith; or
 - (b) ☐ bearing Application No. , and filed on .

WHEREAS, NVIDIA Corporation, a corporation duly organized under and pursuant to the laws of Delaware, and having its principal place of business at 2701 San Tomas Expressway, Santa Clara, California 95050 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to these application(s); any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
- (b) the application for patent identified in paragraph (1) or (2);
- (c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;
- (d) any application(s) for patent of the United States or other countries claiming the Invention(s);
- (e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

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Attorney Docket No.: NVID-133/00US

Client Reference No.: P001854

Page 2

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor: Roger L. ALLENInventor's signature  Date 12/15/2005Citizen of: **United States of America**Residence/Mailing Address: **17917 Upper Cherry Lane, Lake Oswego, OR 97034****Full name of second inventor: Nitij MANGAL**

Inventor's signature _____ Date _____

Citizen of: **India**Residence/Mailing Address: **3421 Granada Avenue #30, Santa Clara, CA 95051**

Rev. 6/14/2002

Attorney Docket No.: NVID-133/00US
Client Reference No.: P001854

PATENT

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(Joint)

Roger L. ALLEN, residing at 17917 Upper Cherry Lane, Lake Oswego, OR 97034;
Nitij MANGAL, residing at 3421 Granada Avenue #30, Santa Clara, CA 95051 (each referred to as
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and which is a:

- (1) ☐ provisional application
 (a) ☐ to be filed herewith; or
 (b) ☐ bearing Application No. , and filed on ; or
- (2) ☒ non-provisional application
 (a) ☒ to be filed herewith; or
 (b) ☐ bearing Application No. , and filed on .

WHEREAS, NVIDIA Corporation, a corporation duly organized under and pursuant to the laws of **Delaware**, and having its principal place of business at 2701 San Tomas Expressway, Santa Clara, California 95050 (the "Assignee"), is desirous of acquiring the entire right, title, and interest in: the Invention(s); the application for patent identified in paragraph (1) or (2); the right to file applications for patent of the United States or other countries on the Invention(s); any application(s) for patent of the United States or other countries claiming priority to these application(s); any provisional or other right to recover damages, including royalties, for prior infringements of these applications; and any patent(s) of the United States or other countries that may be granted therefor or thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, and to the extent that the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of any obligation to do so in said prior agreement, the Assignor has sold, assigned, transferred, and set over, and by these presents does sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns, the Assignor's entire right, title, and interest in:

- (a) the Invention(s);
(b) the application for patent identified in paragraph (1) or (2);
(c) the right to file applications for patent of the United States or other countries on the Invention(s), including all rights under the Paris Convention for the Protection of Industrial Property and under the Patent Cooperation Treaty;
(d) any application(s) for patent of the United States or other countries claiming the Invention(s);
(e) any application(s) for patent of the United States or other countries claiming priority to the application for patent identified in paragraph (1) or (2) or any application(s) for patent claiming the Invention(s), including any division(s), continuation(s), and continuation(s)-in-part; and

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PATENT
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(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the proceeding paragraphs (b)-(e); and

(g) any patent(s) of the United States or other countries that may be granted for or on any application for patent identified in the preceding paragraphs (b) – (e), including any reissue(s) and extension(s) of said patent(s).

The above-granted rights, titles, and interests are to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made.

The Assignor hereby represents to the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, or if applicable, at such time said prior agreement was executed, the Assignor is a lawful owner of an undivided interest in the entire right, title, and interest in and to the Invention(s), that the Invention(s) are unencumbered, except, if applicable, by obligation to assign in accordance with said prior agreement, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth herein.

The Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that the Assignor will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done in connection with any and all proceedings for the procurement, maintenance, enforcement and defense of the Invention(s), said applications, and said patents, including interference proceedings, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns.

The Assignor hereby authorizes and requests the attorneys of COOLEY GODWARD L.L.P. to insert in the spaces provided above the filing date, the application number, and the attorney docket number of the application identified in paragraph (1) or (2) when known.

The Assignor hereby requests the Commissioner of Patents to issue said patents of the United States to the Assignee for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date: _____

By: _____
Roger L. ALLEN

Date: 12/14/2005

By: Nitij Mangal
Nitij MANGAL