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| Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) NVID-089/00US | RECORDATION FORM COVER SHEET PATENTS ONLY | U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office |
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

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| 1. Name of conveying party(ies): Brijesh TRIPATHI Wayne Douglas YOUNG Adam E. LEVINTHAL Stephen M. RYAN Additional name(s) of conveying party(ies) attached? No 3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other () Execution Date: July 19, 2004 and August 22, 2004, respectively. | 2. Name and address of receiving party(ies) NVIDIA CORPORATION 2701 San Tomas Expressway Santa Clara, California 95050 Additional name(s) & address(es) attached? No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> |
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| 4. Application number(s) or patent number(s): 10/903,403 If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) | |
| Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |

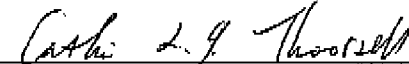
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| 5. Name and address of party to whom correspondence concerning document should be mailed: Cooley Godward LLP Patent Group Five Palo Alto Square 3000 El Camino Real Palo Alto, CA 94306-2155 | 6. Total number of applications and patents involved: [1] 7. Total fee (37 CFR 3.41) \$ 40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 03-3117 <small>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.</small> |
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| 9. Statement and signature. <i>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.</i> | | |
| Cliff Z. Liu, Reg. No. 50,834 _____ Name of Person Signing |  _____ Signature | Sep. 30, 2004 _____ Date |
| Total number of pages including cover sheet, attachments, and documents: [4] | | |

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
P.O. Box 1450, Alexandria, VA 22313-1450

I hereby certify that this correspondence is being transmitted by facsimile addressed to United States Patent and Trademark Office, Mail Stop Assignment Recordation, Facsimile Number (703) 306-5665, at United States Patent and Trademark Office, Alexandria, VA 22313-1450 at 4:00 p.m. on September 30, 2004.

By: 
Cathi L.G. Thoorsell

CH \$40.00 033117 10903403

Rev. 6/14/2002

Attorney Docket No.: NVID-089/00US
Client Reference No.: P001131

PATENT

ASSIGNMENT
(Joint)

Brijesh TRIPATHI, residing at 570 Mill Creek Lane, #207, Santa Clara, California 95054;
Wayne Douglas YOUNG, residing at 1071 Sandalwood Lane, Milpitas, California 95035;
Adam E. LEVINTHAL, residing at 956 Wilmington Way, Redwood City, California 94032; and
Stephen M. RYAN, residing at 1036 West Hill Ct., Cupertino, California 95014,

(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, SYSTEM, AND METHOD FOR DELIVERING DATA TO MULTIPLE MEMORY
CLIENTS VIA A UNITARY BUFFER

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);

Att. y Docket No.: NVID-089/00US
Client Reference No.: P001131
Page 2

(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;

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding 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: 07/19/2004

By: 
Brijesh TRIPATHI

Date: 7/19/2004

By: 
Wayne Douglas YOUNG

Date: _____

By: _____
Adam E. LEVINTHAL

Date: 7/19/2004

By: 
Stephen M. RYAN

Rev. 06/14/2002

Attorney Docket No.: NVID-089/00US

Client Reference No.: P001131

Page 2

(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;

(f) any provisional or other right to recover damages, including royalties, for prior infringements of any application for patent identified in the preceding 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).

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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: _____
Brijesh TRIPATHI

Date: _____

By: _____
Wayne Douglas YOUNG

Date: 8/22/04 _____

By:  _____
Adam E. LEVINTHAL

Date: _____

By: _____
Stephen M. RYAN