502609963 12/20/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2656402

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEROME F. DULUK JR.	12/17/2013
CAMERON BUSCHARDT	12/18/2013
JAMES LEROY DEMING	12/19/2013
LUCIEN DUNNING	12/17/2013
BRIAN FAHS	12/18/2013
MARK HAIRGROVE	12/17/2013
CHENGHUAN JIA	12/17/2013
JOHN MASHEY	12/16/2013
JAMES M. VAN DYKE	12/18/2013

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

Property Type	Number
Application Number:	14134142

CORRESPONDENCE DATA

Fax Number: (713)623-4846 Phone: 713-623-4844

Email: rsmith@pattersonsheridan.com, psdocketing@pattersonsheridan.com

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

Correspondent Name: PATTERSON & SHERIDAN, LLP/NVIDIA

Address Line 1: 3040 POST OAK BLVD.

Address Line 2: SUITE 1500

PATENT

REEL: 031825 FRAME: 0875

DP \$40.00 14134142

502609963

Address Line 4: HOUSTON, TEXAS 77056						
ATTORNEY DOCKET NUMBER:	NVDA/SC-12-0566-US0-US1					
NAME OF SUBMITTER:	JOHN C. CAREY					
Signature:	/John C. Carey/					
Date:	12/20/2013					
Total Attachments: 9 source=NVDASC-12-0566-US0-US1_Assignment#page1.tif source=NVDASC-12-0566-US0-US1_Assignment#page2.tif source=NVDASC-12-0566-US0-US1_Assignment#page3.tif source=NVDASC-12-0566-US0-US1_Assignment#page4.tif source=NVDASC-12-0566-US0-US1_Assignment#page5.tif source=NVDASC-12-0566-US0-US1_Assignment#page6.tif source=NVDASC-12-0566-US0-US1_Assignment#page7.tif source=NVDASC-12-0566-US0-US1_Assignment#page8.tif source=NVDASC-12-0566-US0-US1_Assignment#page9.tif						

PATENT REEL: 031825 FRAME: 0876

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

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

Cameron BUSCHARDT, residing at 5501 Sendero Springs Road Round Rock, TX 78681

James Leroy DEMING, residing at 103 Tidewater Drive Madison, AL 35758

Lucien DUNNING, residing at 700 Agnew Road, #462 Santa Clara, CA 95054

Brian FAHS, residing at 2056 El Sereno Avenue Los Altos, CA 94024

Mark HAIRGROVE, residing at 1255 San Tomas Aquino Road, #214 San Jose, CA 95117

> Chenghuan JIA, residing at 33884 Abercrombie Place Fremont, CA 94555

John MASHEY, residing at 4570 Alpine Road Portola Valley, CA 94028

James Van DYKE, residing at 10608 Glass Mtn. Trl. Austin, TX 78750

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

MIGRATING PAGES OF DIFFERENT SIZES BETWEEN HETEROGENEOUS PROCESSORS

enclosed	herewith	or	for	which	application	for	Letters	Patent	in	the	United	States	under
Application	n No			, filed o	on	_, aı	nd						

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

1 of 3

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.
- 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)	<u>Dec 17</u> , 2013	JEROME F. DULUK, JR.
2)	<u> </u>	CAMERON BUSCHARDY
3)	2013	JAMES LEROY DEMING
4)		LIJCIEN DUJINING
5)		BRIAN FAHS
8)	<u>12/2</u>	MARK HAIRGROVE
7)	<u>Des 17</u> , 2013	CHENGHUAN JIA
8)		JOHN MASHEY
9)		JAMES VAN DYKE

1)	, 2013	JEROME F. DULUK, JR.
2)	, 2013	CAMERON BUSCHARDT
3)	12-19,2013	Jemo-Leroz Deming
4)	, 2013	LUCIEN DUNNING
5)	, 2013	BRIAN FAHS
6)	, 2013	MARK HAIRGROVE
7)	, 2013	CHENGHUAN JIA
8)	, 2013	JOHN MASHEY
9)	, 2013	JAMES VAN DYKE

1)	, 2013	
		JEROME F. DULUK, JR.
2)	, 2013	CAMERON BUSCHARDT
3)	, 2013	JAMES LEROY DEMING
4)	, 2013	
,		LUCIEN DUNNING
· 5)	12/18 , 2013	BRIAN FAHS
6)	, 2013	
		MARK HAIRGROVE
7)	, 2013	CHENGHUAN JIA
	00.0	
8)	, 2013	JOHN MASHEY
9)	<u>,</u> , 2013	JAMES VAN DYKE

3 of 3

01/01/1996	00:00	650-851-4620		TECHVISER HE	EY:MASHEY	PAGE	03
				Atto	rmey Docket No. NVDA/	SC-12-0566-US0-US1	
	1)		2013	JEROME F. DULUK	⟨, JR.	<u> </u>	
	2)		2013	CAMERON BUSCH	HARDT		
	3)		2013	JAMES LEROY DE	EMING		
	4)		2013	LUCIEN DUNNING	.		
	5)		, 2013	BRIAN FAHS			
	6)		, 2013	MARK HAIRGRÓV	/E		
	7)		, 2013	CHENGHUAN JIA			
	8)	12/16	, 2013	JOYN MASHEY			
	9)		, 2013	JAMES VAN DYKI	E		
				3 of 3			
	1					į.	

PATENT REEL: 031825 FRAME: 0882

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

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

Cameron BUSCHARDT, residing at 5501 Sendero Springs Road Round Rock, TX 78681

James Leroy DEMING, residing at 103 Tidewater Drive Madison, AL 35758

Lucien DUNNING, residing at 700 Agnew Road, #462 Santa Clara, CA 95054

Brian FAHS, residing at 2056 El Sereno Avenue Los Altos, CA 94024

Mark HAIRGROVE, residing at 1255 San Tomas Aquino Road, #214 San Jose, CA 95117

> Chenghuan JIA, residing at 33884 Abercrombie Place Fremont, CA 94555

John MASHEY, residing at 4570 Alpine Road Portola Valley, CA 94028

James M. VAN DYKE, residing at 10608 Glass Mtn. Trl. Austin, TX 78750

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

MIGRATING PAGES OF DIFFERENT SIZES BETWEEN HETEROGENEOUS PROCESSORS

enclosed	herewith	or	for	which	application	for	Letters	Patent	in	the	United	States	under
Application				, filed c		_, a							

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 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)	, 2013	JEROME F. DULUK, JR.
2)	, 2013	CAMERON BUSCHARDT
3)	, 2013	JAMES LEROY DEMING
4)	, 2013	LUCIEN DUNNING
5)	, 2013	BRIAN FAHS
6)	, 2013	MARK HAIRGROVE
7)	, 2013	CHENGHUAN JIA
8)	, 2013	JOHN MASHEY
9)	Dec 18, 2013	JAMES M. VAN DYKE