

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Jaakko LEHTINEN</td> <td>12/27/2012</td> </tr> <tr> <td>Timo AILA</td> <td>12/28/2012</td> </tr> <tr> <td>Samuli LAINE</td> <td>12/28/2012</td> </tr> <tr> <td>Tero KARRAS</td> <td>12/28/2012</td> </tr> <tr> <td>David LUEBKE</td> <td>12/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jaakko LEHTINEN	12/27/2012	Timo AILA	12/28/2012	Samuli LAINE	12/28/2012	Tero KARRAS	12/28/2012	David LUEBKE	12/26/2012
Name	Execution Date												
Jaakko LEHTINEN	12/27/2012												
Timo AILA	12/28/2012												
Samuli LAINE	12/28/2012												
Tero KARRAS	12/28/2012												
David LUEBKE	12/26/2012												
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													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13730320</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13730320								
Property Type	Number												
Application Number:	13730320												
CORRESPONDENCE DATA													
Fax Number:	4089389069												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	408-938-9060												
Email:	officeaction@mhbpatents.com												
Correspondent Name:	NVIDIA C/O MURABITO, HAO & BARNES LLP												
Address Line 1:	TWO NORTH MARKET STREET												
Address Line 2:	THIRD FLOOR												
Address Line 4:	SAN JOSE, CALIFORNIA 95113												
ATTORNEY DOCKET NUMBER:	NVID-P-HE-12-0317-US1												
NAME OF SUBMITTER:	Anthony C. Murabito												

OP \$40.00 13730320

Total Attachments: 4

source=NVID-P-HE-12-0317-US1_Assignments#page1.tif

source=NVID-P-HE-12-0317-US1_Assignments#page2.tif

source=NVID-P-HE-12-0317-US1_Assignments#page3.tif

source=NVID-P-HE-12-0317-US1_Assignments#page4.tif

Assignment to NVIDIA Corporation

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we

Jaakko LEHTINEN, Timo AILA, Samuli LAINE, Tero KARRAS, David LUEBKE

do hereby sell, assign, and transfer unto NVIDIA Corporation (hereinafter called NVIDIA), a Delaware Corporation having its principal place of business at 2701 San Tomas Expressway, Santa Clara, CA 95050, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

METHOD AND SYSTEM FOR GRAPHICS RENDERING EMPLOYING GRADIENT DOMAIN METROPOLIS LIGHT TRANSPORT


X filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; or

Serial No.: _____ filed on _____ and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of NVIDIA, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to NVIDIA, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by NVIDIA.

I/we further covenant with NVIDIA, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature:  Date: 2012/12/27
Jaakko LEHTINEN

Inventor's Signature: _____ Date: _____
Timo AILA

Inventor's Signature: _____ Date: _____
Samuli LAINE

Inventor's Signature: _____ Date: _____
Tero KARRAS

Inventor's Signature: _____ Date: _____
David LUEBKE

Assignment to NVIDIA Corporation

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we Jaakko LEHTINEN, Timo AILA, Samuli LAINE, Tero KARRAS, David LUEBKE do hereby sell, assign, and transfer unto NVIDIA Corporation (hereinafter called NVIDIA), a Delaware Corporation having its principal place of business at 2701 San Tomas Expressway, Santa Clara, CA 95050, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

METHOD AND SYSTEM FOR GRAPHICS RENDERING EMPLOYING GRADIENT DOMAIN METROPOLIS LIGHT TRANSPORT

filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; or

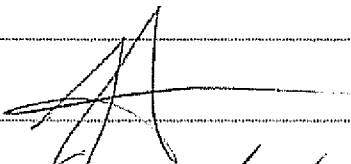
Serial No.: _____ filed on _____ and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of NVIDIA, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to NVIDIA, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by NVIDIA.

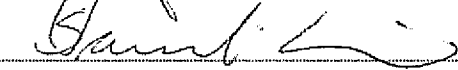
I/we further covenant with NVIDIA, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature: _____ Date: _____
Jaakko LEHTINEN



Inventor's Signature: _____ Date: Dec 28, 2012
Timo AILA



Inventor's Signature: _____ Date: Dec 28, 2012
Samuli LAINE

Inventor's Signature: _____ Date: _____
Tero KARRAS

Inventor's Signature: _____ Date: _____
David LUEBKE

Assignment to NVIDIA Corporation

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we Jaakko LEHTINEN, Timo AILA, Samuli LAINE, Tero KARRAS, David LUEBKE do hereby sell, assign, and transfer unto NVIDIA Corporation (hereinafter called NVIDIA), a Delaware Corporation having its principal place of business at 2701 San Tomas Expressway, Santa Clara, CA 95050, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

METHOD AND SYSTEM FOR GRAPHICS RENDERING EMPLOYING GRADIENT DOMAIN METROPOLIS LIGHT TRANSPORT

filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; or

Serial No.: _____ filed on _____ and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of NVIDIA, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to NVIDIA, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by NVIDIA.

I/we further covenant with NVIDIA, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature: _____ Jaakko LEHTINEN	Date: _____
Inventor's Signature: _____ Timo AILA	Date: _____
Inventor's Signature: _____ Samuli LAINE	Date: _____
Inventor's Signature: <u>Tero Karras</u> Tero KARRAS	Date: <u>28 DEC 2012</u>
Inventor's Signature: _____ David LUEBKE	Date: _____

Assignment to NVIDIA Corporation

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we

Jaakko LEHTINEN, Timo AILA, Samuli LAINE, Tero KARRAS, David LUEBKE

do hereby sell, assign, and transfer unto NVIDIA Corporation (hereinafter called NVIDIA), a Delaware Corporation having its principal place of business at 2701 San Tomas Expressway, Santa Clara, CA 95050, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

METHOD AND SYSTEM FOR GRAPHICS RENDERING EMPLOYING GRADIENT DOMAIN METROPOLIS LIGHT TRANSPORT

filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; or

Serial No.: _____ filed on _____ and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of NVIDIA, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to NVIDIA, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by NVIDIA.

I/we further covenant with NVIDIA, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature: _____ Date: _____
Jaakko LEHTINEN

Inventor's Signature: _____ Date: _____
Timo AILA

Inventor's Signature: _____ Date: _____
Samuli LAINE

Inventor's Signature: _____ Date: _____
Tero KARRAS

Inventor's Signature: David P Luebke Date: 12-26-2012
David LUEBKE