11/14/2012 502129158

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| Bruce Holmer | 10/24/2012 |
| Guillermo J. Rozas | 10/15/2012 |
| Alexander Klaiber | 10/11/2012 |
| James van Zoeren | 10/26/2012 |
| Paul Serris | 10/24/2012 |
| Brad Hoyt | 11/13/2012 |
| Sridharan Ramakrishnan | 10/25/2012 |
| Hens Vanderschoot | 10/12/2012 |
| Ross Segelken | 10/12/2012 |
| Darrell D. Boggs | 11/12/2012 |
| Magnus Ekman | 10/18/2012 |

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

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13677085 |

CORRESPONDENCE DATA

Fax Number: 5034594142

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

503-459-4141 Phone: Email: phillips@ahmrt.com

Correspondent Name: Alleman Hall McCoy Russell & Tuttle LLP

PATENT

REEL: 029299 FRAME: 0240

502129158

| Address Line 1: 806 SW Broadway Suite 600 Address Line 4: Portiand, OREGON 97205 | | |
|---|--|--|
| ATTORNEY DOCKET NUMBER: | NVI11313U1/SC-11-0292-US1 | |
| NAME OF SUBMITTER: | Anthony D. Phillips | |
| | This document serves as an Oath/Declaration (37 CFR 1.63). | |
| Total Attachments: 11 source=ExecutedDecAssign_NVI11313U1#page1.tif source=ExecutedDecAssign_NVI11313U1#page2.tif source=ExecutedDecAssign_NVI11313U1#page4.tif source=ExecutedDecAssign_NVI11313U1#page5.tif source=ExecutedDecAssign_NVI11313U1#page5.tif source=ExecutedDecAssign_NVI11313U1#page6.tif source=ExecutedDecAssign_NVI11313U1#page7.tif source=ExecutedDecAssign_NVI11313U1#page8.tif source=ExecutedDecAssign_NVI11313U1#page9.tif source=ExecutedDecAssign_NVI11313U1#page9.tif source=ExecutedDecAssign_NVI11313U1#page9.tif | | |

MANAGING POTENTIALLY INVALID RESULTS DURING RUNAHEAD

Title of

| Invention: | |
|-------------------------|--|
| As the below named | d inventor, I hereby declare that: |
| • | |
| This declaration is | ☑ The attached application, or |
| directed to: | |
| | ☐ United States application or PCT international application number filed on |
| | |
| The above-identified | d application was made or authorized to be made by me. |
| | |
| I believe that I am th | he original inventor or an original joint inventor of a claimed invention in the application. |
| | |
| I authorize the attor | rneys at Alleman Hall McCoy Russell & Tuttle LLP (Customer Number 17996) to insert the filing date, |
| | , and attorney docket number of the above identified application when known. |
| | |
| WHEREAS NVIDI | A Corporation, ("ASSIGNEE"), a California corporation, having a place of business at 2701 San Tomas |
| | Clara, CA 95050 is desirous of acquiring an interest therein; |
| | for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I |
| | |
| | and transferred, and by these presents do sell, assign, and transfer unto ASSIGNEE, the full and exclusive |
| | dentified invention in the United States and its territorial possessions and in all foreign countries, and the |
| | d interest in and to any and all Letters Patent which may be granted therefor in the United States and its |
| | ns and in any and all foreign countries, and in and to any and all divisions, reissues, continuations and |
| extensions thereof. | |
| | e and request the Patent Office officials in the United States and any and all foreign countries to issue any |
| | rs Patent, when granted, to ASSIGNEE, as the ASSIGNEE of my entire right, title and interest in and to the |
| same, for the sole u | se of the ASSIGNEE, its successors and assigns. |
| Further, Lagree th | nat I will communicate to ASSIGNEE, or its representatives, any facts known to me respecting said |
| invention, and testif | y in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, |
| renewal and reissue | applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be |
| | make all rightful oaths and generally do everything possible to aid ASSIGNEE, its successors and assigns, |
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| i hereby acknowledg | ge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or |
| | t more than five (5) years, or both. |
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| • | ATTY DOCKET NO.: NVI11313U1 / 5C-11-0292-US1 |

Alleman Hall McCoy Russell & Tuttle LLP 806 SW Broadway, Ste. 600 Portland, OR 97205

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| LEGAL NAME OF INV | /ENTOR | |
| | _ | |
| Inventor: Guillermo | 1. Rozas Date (Optional): OCA-152012 | |
| Signature: | | |
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Alleman Hall McCoy Russell & Tuttle LLP 806 SW Broadway, Ste. 600 Portland, OR 97205

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| | <u>IA Corporation,</u> ("ASSIGNEE"), a <u>Cal</u> i <u>a Clara, CA 95050</u> is desirous of acq | ifornia corporation, having a place of uiring an interest therein; | business at <u>2701 San Tomas</u> |
| NOW, THEREFOR have sold, assigned right to the above-i entire right, title an | t, for good and valuable consideration t, and transferred, and by these prese dentified invention in the United Stated in dinterest in and to any and all Letter cons and in any and all foreign countries | t, the receipt and sufficiency of which a nts do sell, assign, and transfer unto AS les and its territorial possessions and in is Patent which may be granted therefo es, and in and to any and all divisions, re | iSIGNEE, the full and exclusive all foreign countries, and the in the United States and its |
| I hereby authoriz and all of said Lette | e and request the Patent Office offici | als in the United States and any and all E, as the ASSIGNEE of my entire right, t nd assigns. | foreign countries to issue any itle and interest in and to the |
| Further, I agree t invention, and testi renewal and reissu- issued to ASSIGNEE | hat I will communicate to ASSIGNEE, ify in any legal proceeding, sign all law e applications, execute all necessary and make all rightful oaths and generally | or its representatives, any facts known vful papers, execute all divisional, continussignment papers to cause any and all y do everything possible to aid ASSIGNE on in the United States and in any and a | nuation, substitution, of said Letters Patent to be Œ, its successors and assigns, |
| | dge that any willful false statement mot more than five (5) years, or both. | ade in this declaration is punishable un | der 18 U.S.C. 1001 by fine or |
| LEGAL NAME OF IN | IVENTOR | | |
| Inventor: <u>Alexand</u> | er Klaiber / Date (Optional) : | | |
| Signature: | | | |
| | *************************************** | ATTY DOCKET NO.: NVI11313U1 / S | C-11-0292-US1 |
| | | <u>}</u> | II McCoy Russell & Tuttle LLF |
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PATENT REEL: 029299 FRAME: 0244

806 SW Broadway, Ste. 600

Portland, OR 9720!

| Title of | MANAGING POTENTIALLY INVALID RESULTS DURING RUNAHEAD | |
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| Invention: | | |
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| extensions thereof. | to one in any and all foreign countries, and in and to ony and an divisions, reissues, continuations and | |
| | and request the Patent Office officials in the United States and any and all foreign countries to issue any | |
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| imprisonment of no | t more than five (5) years, or both. | |
| LEGAL NAME OF IN | /FNTOR | |
| | | |
| Inventor: James van Zoeren Date (Optional) : 10/26/2012 | | |
| Signature: | me lon Zurr | |
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ATTY DOCKET NO.: NVI11313U1 / SC-11-0292-US1

Alleman Hall McCoy Russell & Tuttle LLP 806 SW Broadway, Ste. 600 Portland, OR 97205

| Title of | MANAGING POTENTIALLY INVALID RESULTS DURING RUNAHEAD | |
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| Invention: | | |
| As the below named | l inventor, I hereby declare that: | |
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| LEGAL NAME OF INV | ENTOR | |
| | | |
| Inventor: Paul Serri | 5 Date (Optional): | |
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| Signature: | - flagt - | |
| | ATTY DOCKET NO.: NVI11313U1 / SC-11-0292-US1 | |
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Alleman Hall McCoy Russell & Tuttle LLP 806 SW Broadway, Ste. 600 Portland, OR 97205

Title of

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| Expressway, Santa NOW, THEREFOR, have sold, assigned, right to the above-ic entire right, title and territorial possessio extensions thereof. I hereby authorize and all of said Lettersame, for the sole or Further, I agree the invention, and testiff renewal and reissue issued to ASSIGNEE, to obtain and enforce. | A Corporation, ("ASSIGNEE"), a California corporation, having a place of business at 2701 San Tomas (Clara, CA 95050) is desirous of acquiring an interest therein; for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I and transferred, and by these presents do sell, assign, and transfer unto ASSIGNEE, the full and exclusive lentified invention in the United States and its territorial possessions and in all foreign countries, and the I interest in and to any and all Letters Patent which may be granted therefor in the United States and its as and in any and all foreign countries, and in and to any and all divisions, reissues, continuations and and request the Patent Office officials in the United States and any and all foreign countries to issue any and request the Patent Office officials in the United States and any and all foreign countries to issue any Patent, when granted, to ASSIGNEE, as the ASSIGNEE of my entire right, title and interest in and to the set of the ASSIGNEE, its successors and assigns. Lat I will communicate to ASSIGNEE, or its representatives, any facis known to me respecting said by in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be make all rightful oaths and generally do everything possible to aid ASSIGNEE, its successors and assigns, the proper protection for said invention in the United States and in any and all foreign countries. |
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| LEGAL NAME OF INV | ENTOR $(Date (Optionel) : 11/13/20 GL$ |
| Signature: | 2 od opinionan |
| | ATTY DOCKET NO : NV0.131301 / SC.31-0292-053 |

Alleman Hall McCoy Russell & Tuttle LLP 806 SW Broadway, Ste. 600 Portland, OR 97205

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| , | |
| LEGAL NAME OF INV | ; |
| عة بسي | Ramakrishnan Date (Optional): $(0/25/12$ |
| Inventor: <u>Sridharan</u> | Ramakrishnan Date (Optional): 10/23/1L |
| Signature: R.J | Tolland 1 |
| | |

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| LEGAL NAME OF IN | VENTOR | |
| | | |
| Inventor: <u>Hens Vanderschoot</u> Date (Optional): | | |
| Signature: | | |
| <u> </u> | ATTY DOCKET NO : NVI21313U1 / SC-11-0292-US1 | |

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| LEGAL NAME OF INV | ENTOR | |
| Inventor: Ross Sege | <u> Iken Date (Optional) : 10//2//2 </u> | |
| Signature: Lodo Legelly | | |
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| The above-identified application was made or authorized to be made by me. | | |
| I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. | | |
| I authorize the attorneys at Alieman Hall McCoy Russell & Tuttle LLP (Customer Number 17996) to insert the filing date, application number, and attorney docket number of the above identified application when known. | | |
| WHEREAS, NVIDIA Corporation, ("ASSIGNEE"), a California corporation, having a place of business at 2701 San Tomas | | |
| | Clara, CA 95050 is desirous of acquiring an interest therein; | |
| | for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I and transferred, and by these presents do sell, assign, and transfer unto ASSIGNEE, the full and exclusive | |
| | dentified invention in the United States and its territorial possessions and in all foreign countries, and the | |
| entire right, title and | d interest in and to any and all Letters Patent which may be granted therefor in the United States and its | |
| territorial possession | ns and in any and all foreign countries, and in and to any and all divisions, reissues, continuations and | |
| extensions thereof. | | |
| I hereby authorize and request the Patent Office officials in the United States and any and all foreign countries to issue any and all of said Letters Patent, when granted, to ASSIGNEE, as the ASSIGNEE of my entire right, title and interest in and to the same, for the sole use of the ASSIGNEE, its successors and assigns. | | |
| | at I will communicate to ASSIGNEE, or its representatives, any facts known to me respecting said | |
| invention, and testif | y in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, | |
| | applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be | |
| | make all rightful oaths and generally do everything possible to aid ASSIGNEE, its successors and assigns, | |
| to obtain and enforc | e proper protection for said invention in the United States and in any and all foreign countries. | |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. | | |
| LEGAL NAME OF INV | 'ENTOR | |
| Inventor: Darrell D. Boggs Date (Optional): 12 Nav 1012 | | |
| Signature: April & Office | | |
| 30-14 | ATTY DOCKET NO.: NVI11313U1 / SC-11-0292-U51 | |

Alleman Hall McCoy Russell & Tuttle LLP 806 SW Broadway, Ste. 600 Portland, OR 97205

| Title of | MANAGING POTENTIALLY INVALID RESULTS DURING RUNAHEAD | | |
|--|--|--|--|
| Invention: | | | |
| As the below named inventor, I hereby declare that: | | | |
| | | | |
| This declaration is directed to: | ∑ The attached application, or | | |
| | United States application or PCT International application numberfiled on, | | |
| The above-identified application was made or authorized to be made by me. | | | |
| I believe that I am ti | ne original inventor or an original joint inventor of a claimed invention in the application. | | |
| I authorize the attorneys at Alleman Hall McCoy Russell & Tuttle LLP (Customer Number 17996) to insert the filing date, application number, and attorney docket number of the above identified application when known. | | | |
| WHEREAS, <u>NVIDI</u> | A Corporation, ("ASSIGNEE"), a California corporation, having a place of business at 2701 San Tomas | | |
| Expressway, Santa | <u>Clara, CA 95050</u> is desirous of acquiring an interest therein; | | |
| | for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, i | | |
| | and transferred, and by these presents do sell, assign, and transfer unto ASSIGNEE, the full and exclusive | | |
| | dentified invention in the United States and its territorial possessions and in all foreign countries, and the | | |
| | d interest in and to any and all Letters Patent which may be granted therefor in the United States and its | | |
| | ns and in any and all foreign countries, and in and to any and all divisions, reissues, continuations and | | |
| extensions thereof. | and an acceptable Park at 1967 at 1965 at 1964 | | |
| I hereby authorize and request the Patent Office officials in the United States and any and all foreign countries to issue any and all of said Letters Patent, when granted, to ASSIGNEE, as the ASSIGNEE of my entire right, title and interest in and to the same, for the sole use of the ASSIGNEE, its successors and assigns. | | | |
| Further, I agree th | nat I will communicate to ASSIGNEE, or its representatives, any facts known to me respecting said | | |
| | y in any legal proceeding, sign ali lawful papers, execute all divisional, continuation, substitution, | | |
| | applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be | | |
| | make all rightful paths and generally do everything possible to aid ASSIGNEE, its successors and assigns, | | |
| to obtain and enforce | ce proper protection for said invention in the United States and in any and all foreign countries. | | |
| I hereby acknowledg | ge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or | | |
| | t more than five (5) years, or both. | | |
| LEGAL NAME OF INV | /ENTOR | | |
| Y X Y | 10/10/10 | | |
| miventor: <u>iviagnus t</u> | Ekman Date (Optional): 10/18/12 | | |
| Signature: | | | |
| | ATTY DODVET NO. NEW 404010 feet 44 0000 Lies | | |
| | ATTY DOCKET NO.: NVII1313U1 / SC-11-0292-US1 | | |

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PATENT REEL: 029299 FRAME: 0252

RECORDED: 11/14/2012