# 503509538 10/05/2015 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3556164

| SUBMISSION TYPE:                 | NEW ASSIGNMENT |  |  |  |  |
|----------------------------------|----------------|--|--|--|--|
| NATURE OF CONVEYANCE: ASSIGNMENT |                |  |  |  |  |
| CONVEYING PARTY DATA             |                |  |  |  |  |

| Name                 | Execution Date |  |  |
|----------------------|----------------|--|--|
| BENJAMIN J. BOWERS   | 08/26/2008     |  |  |
| MATTHEW W. BAKER     | 08/25/2008     |  |  |
| ANTHONY CORREALE JR. | 08/25/2008     |  |  |
| IRFAN RASHID         | 08/26/2008     |  |  |
| PAUL M. STEINMETZ    | 08/26/2008     |  |  |

# **RECEIVING PARTY DATA**

| Name:           | INTERNATIONAL BUSINESS MACHINES CORPORATION |
|-----------------|---|
| Street Address: | NEW ORCHARD ROAD                            |
| City:           | ARMONK                                      |
| State/Country:  | NEW YORK                                    |
| Postal Code:    | 10504                                       |

# PROPERTY NUMBERS Total: 2

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14537685 |
| Application Number: | 13364249 |

### CORRESPONDENCE DATA

| Fax Number: (503)595-5301   Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail. |                        |                                  |  |  |  |
|--|------------------------|----------------------------------|--|--|--|
| Phone:   | 503-5                  | 595-5300                         |  |  |  |
| Email:   | alliso                 | n.green@klarquist.com            |  |  |  |
| Correspondent Name:  | KLAF                   | KLARQUIST SPARKMAN, LLP          |  |  |  |
| Address Line 1:  | 121 S                  | 121 SW SALMON STREET, SUITE 1600 |  |  |  |
| Address Line 2:  | ONE                    | NE WORLD TRADE CENTER            |  |  |  |
| Address Line 4:  | PORTLAND, OREGON 97204 |                                  |  |  |  |
| ATTORNEY DOCKET NUMBER:  |                        | 1011-90654-02                    |  |  |  |
| NAME OF SUBMITTER:   |                        | JOHN M. LUNSFORD                 |  |  |  |
| SIGNATURE:   |                        | /John M. Lunsford/               |  |  |  |
| DATE SIGNED:   |                        | 10/05/2015                       |  |  |  |

| Total Attachments: 8               |  |
|------------------------------------|--|
| source=Assignment to IBM#page1.tif |  |
| source=Assignment to IBM#page2.tif |  |
| source=Assignment to IBM#page3.tif |  |
| source=Assignment to IBM#page4.tif |  |
| source=Assignment to IBM#page5.tif |  |
| source=Assignment to IBM#page6.tif |  |
| source=Assignment to IBM#page7.tif |  |
| source=Assignment to IBM#page8.tif |  |

#### ASSIGNMENT

Whereas, we,

- (1) Benjamin J. Bowers County of Wake
- (2) <u>Matthew W. Baker</u> County of <u>Wake</u>
- (3) <u>Anthony Correals Jr.</u> County of <u>Wake</u>
- (4) Irfan Rashid County of Wake

of Cary and State of North Carolina

of Holly Springs and State of North Carolina

of <u>Raleigh</u> and State of <u>North Carolina</u>

of Cary and State of North Carolina

(5) Paul M. Steinmetz County of of Holly Springs and State of North Carolina

have invented certain improvements in

#### **COMPILER FOR CLOSED-LOOP 1XN VLSI DESIGN**

| and ex | kecuted, res | pectively, a | United | States | patent   | application  | therefore | on (0 | ates  | Inventors |
|--------|--------------|--------------|--------|--------|----------|--------------|-----------|-------|-------|-----------|
| Signe  | d Declaratio | in) (1) And  | sust 2 | 6.(    | 2008); ( | 2)           | . (2      | (800  |       |           |
| (3)    |              | _ (2008); (4 | \$)    |        | , (2)    | 008); and (5 | i)(i      |       | . (20 | 08)       |

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.



Paul M. Steinmetz

Page 2 of 2

Aug-25-2008 01:51pm From-

T-240 P.010/011 F-884

IBM Docket No.: RPS920080165US1(4314)

# ASSIGNMENT

Whereas, we,

- (1) Benjamin J. Bowers County of Wake
- (2) <u>Matthew W. Baker</u> County of <u>Wake</u>

(3) Anthony Correale Jr.

County of Wake

of Cary and State of North Carolina

of Holly Springs and State of North Carolina

of Raleigh and State of North Carolina

(4) Irfan Rashid County of Wake of <u>Carv</u> and State of <u>North Carolina</u>

(5) <u>Paul M. Steinmetz</u> County of of Holly Springs and State of North Carolina

have invented certain improvements in

# COMPILER FOR CLOSED-LOOP 1XN VLSI DESIGN

| and executed, respectively, a U | nited States patent application | therefore on (Dates Inventors |
|---------------------------------|---------------------------------|-------------------------------|
| Signed Declaration) (1)         | $(2008)(2) \times 7708$         | p, (2000),                    |
| (3), (2008); (4) _              | , (2008); and (5                | ), (2000).                    |

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore:

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Page 1 of 2

# IBM Docket No.: RPS920080165US1(4314)



Page 2 of 2

PATENT REEL: 036728 FRAME: 0279

IBM Docket No.: RPS920080165US1(4314)

ASSIGNMENT

Whereas, we,

- (1) <u>Benjamin J. Bowers</u> County of <u>Wake</u>
- (2) <u>Matthew W. Baker</u> County of <u>Wake</u>
- (3) <u>Anthony Correale Jr.</u> County of <u>Wake</u>

and State of North Carolina

of Carv

of Cary

of Holly Springs and State of North Carolina

of <u>Raleigh</u> and State of <u>North Carolina</u>

- (4) Irfan Rashid County of Wake
- (5) <u>Paul M. Steinmetz</u> County of

of Holly Springs and State of North Carolina

and State of North Carolina

have invented certain improvements in

# COMPILER FOR CLOSED-LOOP 1XN VLSI DESIGN

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the Invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

IBM Docket No.: RPS920080165US1(4314) (1) Signed at \_\_\_\_\_(City) \_, 2008. (Date) \_\_ on \_\_ Benjamin J. Bowers , 2008. \_ on (2) Signed at \_\_\_\_ (Date) (City) Matthew W. Baker (3) Signed at <u>Rateigh</u> on <u>August 25</u>, 2008. (City) Anthony Correale Jr. \_, 2008. (4) Signed at \_\_\_\_\_(City) (Date) \_\_ on \_\_ Irfan Rashid (5) Signed at \_\_\_\_\_(City) \_\_\_\_\_, 2008. (Date) on

Paul M. Steinmetz

2001-07-07 21:06

IBM Docket No.: RP\$920080165U\$1(4314)

ASSIGNMENT

Whereas, we,

- (1) Beniamin J. Bowers County of Wake
- (2) <u>Matthew W. Baker</u> County of <u>Wake</u>
- (3) Anthony Correale Jr. County of Wake

of <u>Carv</u> and State of <u>North Carolina</u>

of Holly Springs and State of North Carolina

of Raleigh and State of North Carolina

(4) <u>Irfan Rashid</u> County of <u>Wake</u>

of <u>Cary</u> and State of <u>North Carolina</u>

(5) <u>Paul M. Steinmetz</u> County of of Holly Springs and State of North Carolina

have invented certain improvements in

# COMPILER FOR CLOSED-LOOP 1XN VLSI DESIGN

and executed, respectively, a United States patent application therefore on (Dates Inventors Signed Declaration) (1) \_\_\_\_\_\_, (2008); (2) \_\_\_\_\_, (2008); (2008); (3) \_\_\_\_\_, (2008); (4) \_\_\_\_\_\_, (2008); (2008); and (5) \_\_\_\_\_\_, (2008).

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

IBM Docket No.: RPS920080165US1(4314)



PATENT **REEL: 036728 FRAME: 0282** 

**RECORDED: 10/05/2015**