

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|--|--|---------------------------|---|------------------------------|-------|------------|----------------|----------------------|--------------|-------|--|
| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"><tr><th>Name</th><th>Execution Date</th></tr><tr><td>INTERNATIONAL BUSINESS MACHINES CORPORATION</td><td>04/20/2010</td></tr></table> | Name | Execution Date | INTERNATIONAL BUSINESS MACHINES CORPORATION | 04/20/2010 | | | | | | | |
| Name | Execution Date | | | | | | | | | | |
| INTERNATIONAL BUSINESS MACHINES CORPORATION | 04/20/2010 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"><tr><td>Name:</td><td>U.S. DEPARTMENT OF ENERGY</td></tr><tr><td>Street Address:</td><td>1000 INDEPENDENCE AVE., S.W.</td></tr><tr><td>City:</td><td>WASHINGTON</td></tr><tr><td>State/Country:</td><td>DISTRICT OF COLUMBIA</td></tr><tr><td>Postal Code:</td><td>20585</td></tr></table> | Name: | U.S. DEPARTMENT OF ENERGY | Street Address: | 1000 INDEPENDENCE AVE., S.W. | City: | WASHINGTON | State/Country: | DISTRICT OF COLUMBIA | Postal Code: | 20585 | |
| Name: | U.S. DEPARTMENT OF ENERGY | | | | | | | | | | |
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| City: | WASHINGTON | | | | | | | | | | |
| State/Country: | DISTRICT OF COLUMBIA | | | | | | | | | | |
| Postal Code: | 20585 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"><tr><th>Property Type</th><th>Number</th></tr><tr><td>Application Number:</td><td>12684776</td></tr></table> | Property Type | Number | Application Number: | 12684776 | | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 12684776 | | | | | | | | | | |
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| Total Attachments: 1 source=S-118823#page1.tif | | | | | | | | | | | |

5-118,823

CONFIRMATORY INSTRUMENT

APPLICATION FOR (TITLE OF INVENTION)
MULTI-INPUT AND BINARY REPRODUCIBLE, HIGH BANDWIDTH FLOATING POINT
ADDER IN A COLLECTIVE NETWORK

INVENTOR(S):

Dong Chen, Philip Heidelberger, Noel A. Easley and Burkhard Steinmacher-Burow

| | |
|---|--------------------------|
| SERIAL NO. 12/684776 | FILING DATE: 08-Jan-2010 |
| CONTRACTOR: INTERNATIONAL BUSINESS MACHINES CORPORATION | CONTRACT NO. B554331 |

The Invention identified above is a "Subject Invention" under the Patent Rights Clause included in the above contract with:

Department of Energy

(SPECIFY GOV'T. AGENCY HERE)

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Signed this 20th day of April, 2010

INTERNATIONAL BUSINESS
MACHINES CORPORATION
CONTRACTOR

BY: Gail H. Zarick
CONTRACTOR'S OFFICIAL AND TITLE

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