

PATENT ASSIGNMENT

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| 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>Hongzhou ZHAO</td> <td>12/06/2012</td> </tr> <tr> <td>Arrvindh SHRIRAMAN</td> <td>12/20/2012</td> </tr> <tr> <td>Sandhya DWARKADAS</td> <td>12/06/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Hongzhou ZHAO | 12/06/2012 | Arrvindh SHRIRAMAN | 12/20/2012 | Sandhya DWARKADAS | 12/06/2012 |
| Name | Execution Date | | | | | | | | |
| Hongzhou ZHAO | 12/06/2012 | | | | | | | | |
| Arrvindh SHRIRAMAN | 12/20/2012 | | | | | | | | |
| Sandhya DWARKADAS | 12/06/2012 | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | |
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| City: | Rochester | | | | | | | | |
| State/Country: | NEW YORK | | | | | | | | |
| Postal Code: | 14627 | | | | | | | | |
| 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>13607290</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13607290 | | | | |
| Property Type | Number | | | | | | | | |
| Application Number: | 13607290 | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | |
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| Address Line 1: | 1055 Thomas Jeffereson Street, NW | | | | | | | | |
| Address Line 2: | Suite 400 | | | | | | | | |
| Address Line 4: | Washington, DISTRICT OF COLUMBIA 20007 | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 305988.005 | | | | | | | | |
| NAME OF SUBMITTER: | Chadwick A. Jackson | | | | | | | | |
| Signature: | /Chadwick A. Jackson, #46,495/ | | | | | | | | |

OP \$40.00 13607290

PATENT

Date:

05/05/2013

Total Attachments: 3

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ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS:

Hongzhou ZHAO, residing at: 60 Crittenden Blvd., Apt. 500, Rochester, NY 14620

Arrvindh SHRIRAMAN, residing at: 4808 Hazel Street, #302, Burnaby, BC, V5H 0A2

Sandhya DWARKADAS, residing at: 7 Wood Hill Road, Pittsford, NY 14534

(hereinafter referred to as ASSIGNOR(S)), has made a discovery or invention entitled:

**SHARING PATTERN-BASED DIRECTORY COHERENCE FOR MULTICORE SCALABILITY
("SPACE")**

for which application for Letters Patent of the United States has been executed on even date herewith,

for which application for Letters Patent of the United States has been filed on September 7, 2012, under Application No. 13/607,290, and

WHEREAS:

University of Rochester., having a place of business at: 611 Hylan Building, P.O. Box 270142, Rochester, NY 14627, USA

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive right, title and interest to said discovery or invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

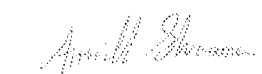
I, SAID ASSIGNOR(S), hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

Client Ref.:

I, SAID, ASSIGNOR(S), hereby covenant that I have full right to convey the entire right, title and interest herein sold, assigned, transferred and set over;

AND I, SAID ASSIGNOR(S) hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, or assigns, may apply for foreign Letters Patent on said discovery or invention and claim the benefits of the International Convention, and that I will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to me respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives, or assigns, I will, at any time, when called upon to do so by the ASSIGNEE its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation and reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, all without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

Signed:

- | | | |
|-----|---|------------------------|
| (1) | Hongzhou ZHAO | Date: |
| (2) |  Arrvindh SHRIRAMAN | Date: December 20 2012 |
| (3) | Sandhya DWARKADAS | Date: |

I, SAID, ASSIGNOR(S), hereby covenant that I have full right to convey the entire right, title and interest herein sold, assigned, transferred and set over;

AND I, SAID ASSIGNOR(S) hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, or assigns, may apply for foreign Letters Patent on said discovery or invention and claim the benefits of the International Convention, and that I will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to me respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives, or assigns, I will, at any time, when called upon to do so by the ASSIGNEE its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation and reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, all without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

Signed:

(1)



Hongzhou ZHAO

Date:

12/06/2012

(2)

Arvindh SHRIRAMAN

Date:

(3)



Sandhya DWARKADAS

Date:

6th Dec, 2012

Client Ref.:

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