

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

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|---|------------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                     |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                         |
| <b>CONVEYING PARTY DATA</b>   |                                    |
| <b>Name</b>   | <b>Execution Date</b>              |
| Richard Kuo   | 12/06/2011                         |
| James Fan   | 12/07/2011                         |
| Deva-Datta Sharma   | 12/07/2011                         |
| <b>RECEIVING PARTY DATA</b>   |                                    |
| <b>Name:</b>  | AT&T Intellectual Property I, L.P. |
| <b>Street Address:</b>  | 675 W. Peachtree St.               |
| <b>Internal Address:</b>  | Suite 4000                         |
| <b>City:</b>  | Atlanta                            |
| <b>State/Country:</b>   | GEORGIA                            |
| <b>Postal Code:</b>   | 30375                              |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                    |
| <b>Property Type</b>  | <b>Number</b>                      |
| <b>Application Number:</b>  | 13308131                           |
| <b>CORRESPONDENCE DATA</b>  |                                    |
| <b>Fax Number:</b>  | (312)580-9696                      |
| <b>Phone:</b>   | 312-580-1020                       |
| <b>Email:</b>   | pcesarz@hfzlaw.com                 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> |                                    |
| <b>Correspondent Name:</b>  | Hanley, Flight and Zimmerman, LLC  |
| <b>Address Line 1:</b>  | 150 S. Wacker Dr.                  |
| <b>Address Line 2:</b>  | Suite 2100                         |
| <b>Address Line 4:</b>  | Chicago, ILLINOIS 60606            |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 20103/2010-1376                    |
| <b>NAME OF SUBMITTER:</b>   | Peter J. Cesarz                    |

OP \$40.00 13308131

**Total Attachments: 5**

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## ASSIGNMENT

Serial No: 13/308,131

Filed: November 30, 2011

Title: METHODS AND APPARATUS TO ADJUST RESOURCE ALLOCATION IN A DISTRIBUTIVE COMPUTING NETWORK

For good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to AT&T INTELLECTUAL PROPERTY I, L.P., a Nevada Partnership, 675 W. Peachtree St., Suite 4000, Atlanta, GA 30375 (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States (which may be a Patent Cooperation Treaty international application designating the United States) and in said application and any and all other applications, United States, international and/or foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and/or foreign countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the execution date and/or filing date and serial number of any such application(s) when officially known.

The undersigned warrants himself to be the owner of the interest herein assigned and to have the right to make this assignment and further warrants that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said consideration the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all international, divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agrees upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in said assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by said assignee, its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

INVENTOR I

Richard Kuo  
Richard Kuo

Date: Dec-6, 2011

STATE OF

ss.

COUNTY OF

On this \_\_\_\_\_ day of \_\_\_\_\_, 2011, before me, a Notary Public in and for the County and State aforesaid, appeared **Richard Kuo**, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

Notary Public:

See attached certificate.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires:

\_\_\_\_\_

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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Santa Clara

On 6th day of Dec. 2011 before me, Hae R Choi - Notary Public,

personally appeared Richard Kuo

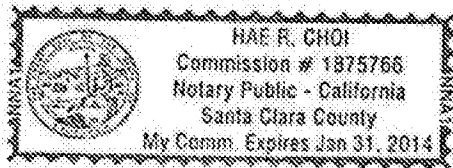
who proved to me on the basis of satisfactory evidence to be the person(s) who name(s) (s) are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: [Handwritten Signature]

Notary Seal:



INVENTOR 2

[Signature]

James Fan

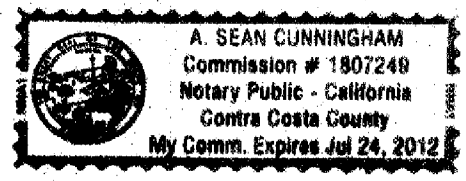
Date: 12-7-2011

STATE OF California  
COUNTY OF Contra

ss:

On this 7th day of December, 2011, before me, a Notary Public in and for the County and State aforesaid, appeared **James Fan**, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

Notary Public: [Signature]



WITNESS my hand and seal the same day and year last above given.

My Commission Expires: July 24, 2012  
\*\*\*\*\*

INVENTOR 3

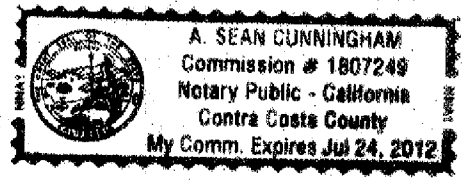
Deva-Datta Sharma  
Deva-Datta Sharma

Date: 12/09/11

STATE OF California  
COUNTY OF Contra Costa ss.

On this 7th day of December, 2011, before me, a Notary Public in and for the County and State aforesaid, appeared **Deva-Datta Sharma**, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

Notary Public: A. Sean Cunningham



WITNESS my hand and seal the same day and year last above given.

My Commission Expires: July 24, 2012  
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