

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>Nicholas Duffield</td> <td>08/23/2005</td> </tr> <tr> <td>Carsten Lund</td> <td>08/03/2005</td> </tr> <tr> <td>Subhabrata Sen</td> <td>08/03/2005</td> </tr> <tr> <td>Yin Zhang</td> <td>10/13/2008</td> </tr> <tr> <td>Sumeet Singh</td> <td>02/22/2012</td> </tr> </tbody> </table>		Name	Execution Date	Nicholas Duffield	08/23/2005	Carsten Lund	08/03/2005	Subhabrata Sen	08/03/2005	Yin Zhang	10/13/2008	Sumeet Singh	02/22/2012
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>AT&T CORP.</td> </tr> <tr> <td>Street Address:</td> <td>32 AVENUE OF THE AMERICAS</td> </tr> <tr> <td>City:</td> <td>NEW YORK</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10013</td> </tr> </table>		Name:	AT&T CORP.	Street Address:	32 AVENUE OF THE AMERICAS	City:	NEW YORK	State/Country:	NEW YORK	Postal Code:	10013		
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CORRESPONDENCE DATA													
<p>Fax Number: 7325422283 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 732-542-2280 Email: khunter@walltong.com Correspondent Name: AT&T LEGAL DEPARTMENT - WT Address Line 1: PATENT DOCKETING Address Line 2: ROOM 2-A, ONE AT&T WAY Address Line 4: BEDMINSTER, NEW JERSEY 07921</p>													
ATTORNEY DOCKET NUMBER:	2004-0015												
NAME OF SUBMITTER:	Kin-Wah Tong												

OP \$40.00 11042771

Signature:	/Kin-Wah Tong/
Date:	04/18/2013
Total Attachments: 8 source=2004-0015_Assignment#page1.tif source=2004-0015_Assignment#page2.tif source=2004-0015_Assignment#page3.tif source=2004-0015_Assignment#page4.tif source=2004-0015_Assignment#page5.tif source=2004-0015_Assignment#page6.tif source=2004-0015_Assignment#page7.tif source=2004-0015_Assignment#page8.tif	

ASSIGNMENT AND AGREEMENT

For value received, we, Nicholas Duffield, of Summit, New Jersey, Carsten Lund of Berkeley Heights, New Jersey, Subhabrata Sen of New Providence, New Jersey, Yin Zhang of Austin, Texas, and Sumeet Singh of San Diego, CA, hereby sell, assign and transfer to AT&T Corp., a corporation of the State of New York, having an office at 32 Avenue of the Americas, New York, New York 10013-2412, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **METHOD AND APPARATUS FOR DETECTION OF HIERARCHICAL HIERARCHICAL HEAVY HITTERS** described in an application for Letters Patent of the United States, filed on January 24, 2005 under serial number 11/042,771 and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to AT&T Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize AT&T Corp. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of AT&T Corp. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to AT&T Corp. in the United States and in all countries foreign to the United States, or to such nominees as AT&T Corp. may designate.

We agree that, when requested, we shall, without charge to AT&T Corp. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Date: 8/23/2005

Nicholas Duffield
Nicholas Duffield

State of New Jersey)
County of Monmouth)

On this 23 day of August, 200⁵3, before me personally came Nicholas DUFFIELD, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Robin J. Badders
Notary Public
ROBIN J. BADDERS
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 11/30/2008

Date: _____

Carsten Lund

State of _____)
County of _____)

On this _____ day of _____, 2003, before me personally came Carsten LUND, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Date: _____

Subhabrata Sen

State of _____)
County of _____)

On this _____ day of _____, 2003, before me personally came Subhabrata SEN, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

ASSIGNMENT AND AGREEMENT

For value received, we, Nicholas Duffield, of Summit, New Jersey, Carsten Lund of Berkeley Heights, New Jersey, Subhabrata Sen of New Providence, New Jersey, Yin Zhang of Austin, Texas, and Sumeet Singh of San Diego, CA, hereby sell, assign and transfer to AT&T Corp., a corporation of the State of New York, having an office at 32 Avenue of the Americas, New York, New York 10013-2412, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **METHOD AND APPARATUS FOR DETECTION OF HIERARCHICAL HIERARCHICAL HEAVY HITTERS** described in an application for Letters Patent of the United States, filed on January 24, 2005 under serial number 11/042,771 and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to AT&T Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

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Date: _____

Nicholas Duffield

State of _____)
County of _____)

On this ____ day of _____, 2003, before me personally came Nicholas DUFFIELD, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Date: 08/03/05

Carsten Lund

State of New Jersey)
County of Morris)

ROBIN J. BADDERS
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 11/30/2008

On this 3 day of August, 200⁵, before me personally came Carsten LUND, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Date: 08/03/05

Subhabrata Sen

State of New Jersey)
County of Morris)

On this 3 day of August, 200⁵, before me personally came Subhabrata SEN, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

ROBIN J. BADDERS
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 11/30/2008

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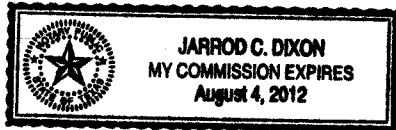
Date: 13 October 2008



Yin Zhang

State of TEXAS)
County of TRAVIS)

On this 13 day of October, 2008, before me personally came Yin ZHANG, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

Date: _____

Sumeet Singh

State of _____)
County of _____)

On this ____ day of _____, 2008, before me personally came Sumeet SINGH, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

ASSIGNMENT AND AGREEMENT

For value received, we, Nicholas Duffield, of Summit, New Jersey, Carsten Lund of Berkeley Heights, New Jersey, Subhabrata Sen of New Providence, New Jersey, Yin Zhang of Austin, Texas, and Sumeet Singh of San Diego, CA, hereby sell, assign and transfer to AT&T Corp., a corporation of the State of New York, having an office at 32 Avenue of the Americas, New York, New York 10013-2412, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **METHOD AND APPARATUS FOR DETECTION OF HIERARCHICAL HIERARCHICAL HEAVY HITTERS** described in an application for Letters Patent of the United States, filed on January 24, 2005 under serial number 11/042,771 and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to AT&T Corp. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

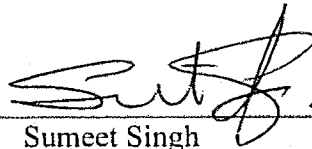
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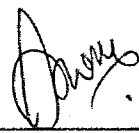
Date: 2/22/2012


Sumeet Singh

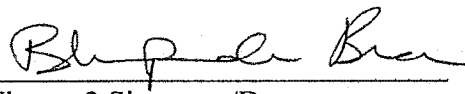
State of California)
County of Santa Clara)

Before me personally came SUMEET SINGH, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Ashok Ganesan
Witness 1 (Print/Type)


Witness 1 Signature/Date

Bhupinder Brar
Witness 2 (Print/Type)


Witness 2 Signature/Date