

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3442929

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ALEXANDRE GERBER	07/18/2011
ZHUOQING MAO	07/28/2011
FENG QIAN	07/18/2011
SUBHABRATA SEN	07/18/2011
OLIVER SPATSCHECK	07/18/2011
ZHAOGUANG WANG	07/18/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AT&T INTELLECTUAL PROPERTY I, L.P.
<b>Street Address:</b>	645 E. PLUMB LANE
<b>City:</b>	RENO
<b>State/Country:</b>	NEVADA
<b>Postal Code:</b>	89502
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14801793
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Phone:</b>	404-927-2780
<b>Email:</b>	epas@thepatentattorneys.com
<b>Correspondent Name:</b>	AT&T LEGAL DEPARTMENT - T&W
<b>Address Line 1:</b>	ROOM 2A-207
<b>Address Line 2:</b>	ONE AT&T WAY
<b>Address Line 4:</b>	BEDMINSTER, NEW JERSEY 07921
<b>ATTORNEY DOCKET NUMBER:</b>	2011-0725 CON/ATTWP533USA
<b>NAME OF SUBMITTER:</b>	THOMAS E. WATSON
<b>SIGNATURE:</b>	/Thomas E. Watson/
<b>DATE SIGNED:</b>	07/16/2015

**Total Attachments: 7**

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2011-0635

ASSIGNMENT OF INVENTION  
TO  
AT&T INTELLECTUAL PROPERTY I, L.P.

WHEREAS, Alexandre Gerber of Madison, New Jersey; Zhuoqing Morley Mao of Lithonia, Michigan; Feng Qian of Lithonia, Michigan; Subhabrata Sen of New Providence, New Jersey; Oliver Spatscheck of Randolph, New Jersey; Zhaoguang Wang of Lithonia, Michigan (hereinafter sometimes referred to as "said inventors"), have invented certain new and useful improvements in **BUNDLING DATA TRANSFERS AND EMPLOYING TAIL OPTIMIZATION PROTOCOL TO MANAGE CELLULAR RADIO RESOURCE UTILIZATION** which invention (hereinafter sometimes referred to as "said invention") has been disclosed to and filed, under Docket No. 2011-0635, in the patent files of AT&T INTELLECTUAL PROPERTY I, L.P., a partnership organized and existing under the laws of the State of Nevada, having a principal place of business at 645 E. Plumb Lane, Reno, Nevada 89502.

I hereby authorize and request Turocy & Watson, LLP, to insert here in parentheses (Application No. 13/164,112, filed June 20, 2011) the filing date and application number of said application when known or to file this Assignment concurrently with the application.

NOW THEREFORE, it is agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, said inventors have sold, assigned and transferred and by these present do sell, assign and transfer unto AT&T INTELLECTUAL PROPERTY I, L.P. the entire right, title and interest in said invention in the United States of America and all foreign countries and in and to said U.S. patent application and all patent applications, divisions, substitutions, continuations and continuations-in-part thereof, and in all United States Letters Patents which may be granted thereon and all reissues and extensions thereof, and in all priority rights under the International Convention for the Protection of Industrial Property for every member country, and in all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said invention in any foreign countries, and in all patents (including all extensions, renewals and reissues thereof) granted for said invention; said applications and patents to be held and enjoyed by the said AT&T INTELLECTUAL PROPERTY I, L.P. for its own use and for the use of its successors and assigns, to the full end of the term for which Letters Patent on same may be granted, as fully and entirely as the same would have been held by said inventors had this assignment and sale not been made.

FURTHER, said inventors hereby agree to sign all lawful papers necessary or helpful in obtaining patents on said invention or in filing any divisional, continuation, substitution, or reissue patent application or re-examination proceedings on said invention whether in the United States of America or in any foreign country.

2011-0635

ASSIGNMENT OF INVENTION  
To  
AT&T INTELLECTUAL PROPERTY I, L.P.

Signed:

Date:

  
ALEXANDRE GERBER

07/18/2011

CERTIFICATE OF ACKNOWLEDGMENT

State of NJ

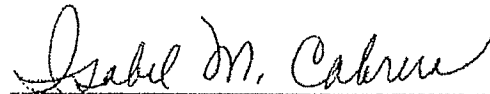
County of Morris

On 7/18/11 before me, Isabel M. Cabrera,  
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared ALEXANDRE GERBER  
Name(s) of Signer(s)

\_ personally known to me - OR - \_ proved to me on  
the basis of satisfactory evidence to be the person  
whose name is subscribed to the within instrument  
and acknowledged to me that he executed the same  
in his authorized capacity, and that by his signature  
on the instrument the person, or the entity upon  
behalf of which the person acted, executed the  
instrument.

WITNESS my hand and official seal.

  
Signature of Notary Public


ISABEL M. CABRERA  
NOTARY PUBLIC OF NEW JERSEY  
I.D. # 2389780  
My Commission Expires 9/24/2014

2010-0892

ASSIGNMENT OF INVENTION  
To  
AT&T INTELLECTUAL PROPERTY I, L.P.

Signed:

Date:

  
ZHUOQING MAO

July 28 2011

**CERTIFICATE OF ACKNOWLEDGMENT**

State of                       
County of                     

**DENISE M. DUPRIE**  
**Notary Public, Livingston County, MI**  
**My Commission Expires Oct. 8, 2011**  
**Acting in Washtenaw County**

On 28<sup>th</sup>, July 2011 before me, Denise M. DuPrié,  
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared ZHUOQING MAO  
Name(s) of Signer(s)

\_ personally known to me - OR - \_ proved to me on  
the basis of satisfactory evidence to be the person  
whose name is subscribed to the within instrument  
and acknowledged to me that he executed the same  
in his authorized capacity, and that by his signature  
on the instrument the person, or the entity upon  
behalf of which the person acted, executed the  
instrument.

WITNESS my hand and official seal.

  
Signature of Notary Public

2010-0892

ASSIGNMENT OF INVENTION  
To  
AT&T INTELLECTUAL PROPERTY I, L.P.

Signed:

Date:

[Signature]  
FENG QIAN

07/18/2011

**CERTIFICATE OF ACKNOWLEDGMENT**

State of ND

County of Merri

On 7/18/11 before me, Isabel M. Cabrera,  
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared FENG QIAN  
Name(s) of Signer(s)

\_ personally known to me - OR - \_ proved to me on  
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and acknowledged to me that he executed the same  
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on the instrument the person, or the entity upon  
behalf of which the person acted, executed the  
instrument.

WITNESS my hand and official seal.

Isabel M. Cabrera  
Signature of Notary Public

ISABEL M. CABRERA  
NOTARY PUBLIC OF NEW JERSEY  
I.D. # 2389780  
My Commission Expires 9/24/2014

2010-0892

ASSIGNMENT OF INVENTION  
To  
AT&T INTELLECTUAL PROPERTY I, L.P.

Signed:

Date:

Subhebrata Sen  
SUBHABRATA SEN

07/18/2011

CERTIFICATE OF ACKNOWLEDGMENT

State of NJ

County of Monmouth

On 7/18/11 before me, Isabel M. Cabrera,  
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared SUBHABRATA SEN  
Name(s) of Signer(s)

\_ personally known to me - OR - \_ proved to me on  
the basis of satisfactory evidence to be the person  
whose name is subscribed to the within instrument  
and acknowledged to me that he executed the same  
in his authorized capacity, and that by his signature  
on the instrument the person, or the entity upon  
behalf of which the person acted, executed the  
instrument.

WITNESS my hand and official seal.

Isabel M. Cabrera  
Signature of Notary Public

ISABEL M. CABRERA  
NOTARY PUBLIC OF NEW JERSEY  
I.D. # 2389780  
My Commission Expires 9/24/2014

2010-0892

ASSIGNMENT OF INVENTION  
To  
AT&T INTELLECTUAL PROPERTY I, L.P.

Signed:

Date:

  
OLIVER SPATSCHECK

7/18/2011

**CERTIFICATE OF ACKNOWLEDGMENT**

State of   NJ  

County of   Morris  

On   7/18/11   before me,   Isabel M. Cabrera    
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared   OLIVER SPATSCHECK    
Name(s) of Signer(s)

\_ personally known to me - OR - \_ proved to me on  
the basis of satisfactory evidence to be the person  
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and acknowledged to me that he executed the same  
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on the instrument the person, or the entity upon  
behalf of which the person acted, executed the  
instrument.

WITNESS my hand and official seal.

  
Signature of Notary Public

ISABEL M. CABRERA  
NOTARY PUBLIC OF NEW JERSEY  
I.D. # 2389780  
My Commission Expires 9/24/2014



2010-0892

ASSIGNMENT OF INVENTION  
To  
AT&T INTELLECTUAL PROPERTY I, L.P.

Signed:

Date:

Zhaoguang Wang  
ZHAOGUANG WANG

07/19/2011

**CERTIFICATE OF ACKNOWLEDGMENT**

State of New Jersey

County of Morris

On 7/19/11 before me, ISABEL M. CABRERA  
Name and Title of Officer (e.g., "June Doe, Notary Public")

personally appeared ZHAOGUANG WANG  
Name(s) of Signer(s)

☐ personally known to me - OR - ☒ proved to me on  
the basis of satisfactory evidence to be the person  
whose name is subscribed to the within instrument  
and acknowledged to me that he executed the same  
in his authorized capacity, and that by his signature  
on the instrument the person, or the entity upon  
behalf of which the person acted, executed the  
instrument.

WITNESS my hand and official seal.

Isabel M. Cabrera  
Signature of Notary Public

ISABEL M. CABRERA  
NOTARY PUBLIC OF NEW JERSEY  
I.D. # 2389780  
My Commission Expires 9/24/2014