

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

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>Ming-Ju Ho</td><td>07/29/2011</td></tr><tr><td>Patrick Mascarenhas</td><td>07/29/2011</td></tr></tbody></table>		Name	Execution Date	Ming-Ju Ho	07/29/2011	Patrick Mascarenhas	07/29/2011				
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Patrick Mascarenhas	07/29/2011										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>AT&T Mobility II LLC</td></tr><tr><td>Street Address:</td><td>1025 Lenox Park Blvd, NE</td></tr><tr><td>City:</td><td>Atlanta</td></tr><tr><td>State/Country:</td><td>GEORGIA</td></tr><tr><td>Postal Code:</td><td>30319</td></tr></table>		Name:	AT&T Mobility II LLC	Street Address:	1025 Lenox Park Blvd, NE	City:	Atlanta	State/Country:	GEORGIA	Postal Code:	30319
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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>13194443</td></tr></tbody></table>		Property Type	Number	Application Number:	13194443						
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Application Number:	13194443										
CORRESPONDENCE DATA											
Fax Number: (216)696-8731 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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NAME OF SUBMITTER:	Thomas E. Watson										
Total Attachments: 3 source=Assignment-as-Filed#page1.tif source=Assignment-as-Filed#page2.tif source=Assignment-as-Filed#page3.tif											

OP \$40.00 13194443

2010-1003

ASSIGNMENT OF INVENTION
TO
AT&T MOBILITY II LLC

WHEREAS, Ming-Ju Ho of Alpharetta, Georgia and Patrick Mascarenhas of Atlanta, Georgia; (hereinafter sometimes referred to as "said inventors"), have invented certain new and useful improvements in **MACRO NETWORK OPTIMIZATION WITH ASSISTANCE FROM FEMTO CELLS**, which invention (hereinafter sometimes referred to as "said invention") has been disclosed to and filed, under Docket No. 2010-1003, in the patent files of AT&T Mobility II LLC, a Delaware Corporation having a principal place of business at 1025 Lenox Park Boulevard, NE, Atlanta, Georgia 30319.

I hereby authorize and request Turocy & Watson, LLP, to insert here in parentheses (Application No. 13/194,443 , filed 7/29/2011) 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 Mobility II LLC 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 Mobility II LLC 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.

2010-1003
ASSIGNMENT OF INVENTION
To
AT&T MOBILITY II LLC

Signed:

Date:

Ming-Ju Ho
Ming-Ju Ho

7/29/2011

CERTIFICATE OF ACKNOWLEDGMENT

State of Georgia

County of Dekalb

On 7/29/2011 before me, Ming-Ju Ho,
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared MING-JU HO
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.

Linda K Richards

Signature of Notary Public

My commission expires 9/24/2012

2010-1003
ASSIGNMENT OF INVENTION
To
AT&T MOBILITY II LLC

Signed:

Date:

Patrick Mascarenhas

29 July 2011

Patrick Mascarenhas

CERTIFICATE OF ACKNOWLEDGMENT

State of Georgia

County of DeKalb ~~DeKalb~~ DeKalb LR

On 7/29/2011 before me, PATRICK MASCARENHAS,
Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared PATRICK MASCARENHAS
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.

Linda K Richards

Signature of Notary Public

My commission expires 9/24/2012