

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALAN D. MACDONALD	09/29/2003
MARC W. SATHER	10/01/2003
JOHN L. SNAPP	10/01/2003
RECEIVING PARTY DATA	
Name:	AT&T Wireless Services, Inc.
Street Address:	7277 164th Avenue, NE
City:	Redmond
State/Country:	WASHINGTON
Postal Code:	98052
PROPERTY NUMBERS Total: 4	
Property Type	Number
Application Number:	12396372
Application Number:	13334341
Application Number:	13691031
Application Number:	14217571
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	2001-0195/27.5799
NAME OF SUBMITTER:	JODI L. HARTMAN
SIGNATURE:	/Jodi L. Hartman/
DATE SIGNED:	12/02/2015

Total Attachments: 5

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A S S I G N M E N T

WHEREAS, we, Alan D. MacDonald, of Bellevue, County of King, State of Washington, Marc W. Sather, of Kingston, County of Kitsap, State of Washington, and John L. Snapp, of Sammamish, County of King, State of Washington, respectively, are the joint inventors of an invention entitled METHODS AND APPARATUS FOR MOBILE STATION LOCATION ESTIMATION, as described and claimed in the specification forming part of an application for United States letters patent executed herewith;

WHEREAS, AT&T Wireless Services, Inc., a corporation organized under the laws of the State of Washington, having a place of business at 16221 NE 72nd Way, Redmond, Washington 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Alan D. MacDonald, Marc W. Sather and John L. Snapp, hereby sell, assign and transfer to AT&T Wireless Services, Inc., the full and exclusive right, title and interest in and to said invention, patent application and patent rights throughout the world, including foreign patent priority rights, the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said invention, application and letters patent in this or any foreign country, and all divisionals, continuations, reissues and extensions thereof, to be held and enjoyed by AT&T Wireless Services, Inc., for its own use and benefit, and for its successors and assigns to the full

end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to AT&T Wireless Services, Inc., or its successors and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid AT&T Wireless Services, Inc., its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

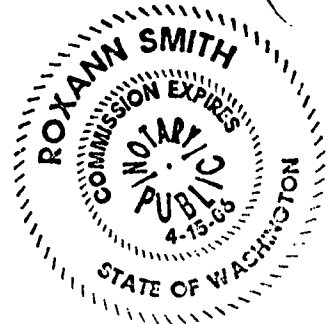
Executed at the place and date opposite our respective signatures below.

At Redmond, Washington

on this 29th day of September, 2003.

STATE OF Washington)
COUNTY OF King) ss.

Alan D. MacDonald



This 29th day of September, 2003, before me personally came the above-named Alan D. MacDonald, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

Roxann Smith
Notary Public For State of Washington
My commission expires: 4-15-05

[SEAL]




Marc W. Sather

At Redmond WA

(City and State)
on this 1st day of October, 2003.

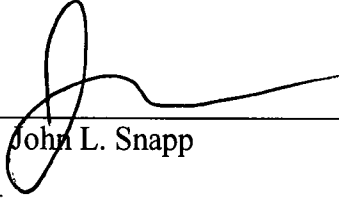
STATE OF WA)
COUNTY OF King) ss.

This 1st day of October, 2003, before me personally came the above-named Marc W. Sather, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



Notary Public For
My commission expires: 4-09-05

[SEAL]

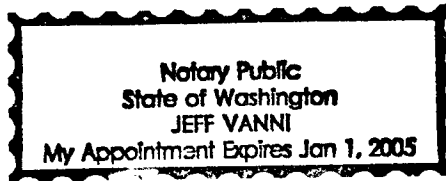


John L. Snapp

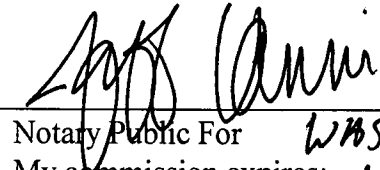
At Sammamish, WA
(City and State)
on this 1 day of October, 2003.

STATE OF WA)
COUNTY OF King) ss.

This 1 day of October, 2003, before me personally came the above-named John L. Snapp, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]



Notary Public For Washington
My commission expires: Jan 1, 2005