

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>Titus Lo</td> <td>06/08/2001</td> </tr> <tr> <td>Ruifeng Wang</td> <td>04/25/2001</td> </tr> </tbody> </table>		Name	Execution Date	Titus Lo	06/08/2001	Ruifeng Wang	04/25/2001
Name	Execution Date						
Titus Lo	06/08/2001						
Ruifeng Wang	04/25/2001						
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: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12640234</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12640234		
Property Type	Number						
Application Number:	12640234						
CORRESPONDENCE DATA							
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ATTORNEY DOCKET NUMBER:	C07-022-000/037-0077-3						
NAME OF SUBMITTER:	Katrina Prati						
Total Attachments: 4 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif							

OP \$40.00 12640234

ASSIGNMENT AND AGREEMENT

For value received, each of the undersigned, Titus Lo of Redmond in the County of King County and State of Washington, and Ruifeng Wang of Redmond in the County of King County and State of Washington, hereby sells, assigns and transfers to AT&T Wireless Services, Inc., a corporation of the State of Delaware, having an office at 7277 164th Avenue NE, Redmond, Washington 98052, United States of America, and its successors, assignees and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to

Turbo Channel Estimation For OFDM Systems

described in an application for Letters Patent for the United States of America,

for which an application for a United States Patent was executed on _____

for which an application for a United States Patent was filed on _____ Application Number _____,

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 the undersigned also concurrently hereby sell, assign and transfer to AT&T Wireless Services, Inc. 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.

The undersigned authorize AT&T Wireless Services, Inc. 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 the undersigned, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.


The undersigned 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 Wireless Services, Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

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

The undersigned agree that, when requested, the undersigned shall, without charge to AT&T Wireless Services, Inc. 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: 6/8/2001


Titus Lo

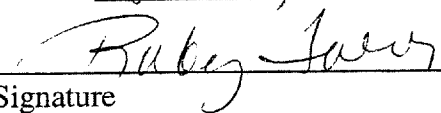
United States of America)

State of Washington) ss.:

County of KING)

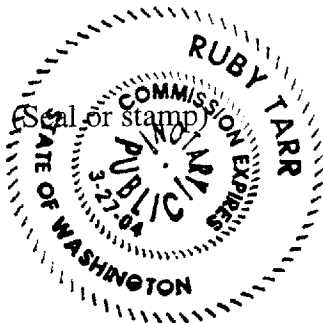
I certify that I know or have satisfactory evidence that Titus Lo is the person who appeared before me, and said person acknowledged that (he/she) signed this instrument and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: June 8, 2001


Signature

Trademark & Patent Administrator
Title

My appointment expires 3/27/01



AT&T CORP.
P.O. Box 4110
Middletown, New Jersey 07748-4110

Attorney Docket Number: 2001-0084

Date: Apr. 25, 2001

Ruifeng Wang
Ruifeng Wang

United States of America)

State of Washington) ss.:

County of KING)

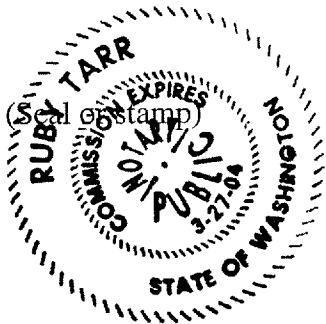
I certify that I know or have satisfactory evidence that Ruifeng Wang is the person who appeared before me, and said person acknowledged that (he/she) signed this instrument and acknowledged it to be (his/her) free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: 4/25/01

Ruby Tarr
Signature

Trademark Patent Administrator
Title

My appointment expires 3/27/04



AT&T CORP.
P.O. Box 4110
Middletown, New Jersey 07748-4110

Notary Public