

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

OMB No. 0651-0011 (exp. 4/94)

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**To the Honorable Commissioner of Pater,**

100709602

... the enclosed original documents or copy thereof.

**1. Name of conveying party(ies):**

Titus Lo  
Vahid Tarokh

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

### 3. Nature of conveyance:

☒ Assignment ☐ Merger

☐ Security Agreement ☐ Change of Name

☐ Other \_\_\_\_\_

**Execution Date:** April 14, 1998; April 3, 1998

**2. Name and address of receiving party(ies)**

Name: AT&T Wireless Services, Inc.

**Internal Address:**

Street Address: 5000 Carillon Point

City: Kirkland State: WA ZIP: 98033

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application number(s) or patent number(s):**

If this document is being filed together with a new application, the execution date of the application is: 4/3/98

**A. Patent Application No.(s)**

**B. Patent No.(s)**

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Mr. S. H. Dworetsky

Internal Address: AT&T Corp.

**Street Address:** P.O. Box 4110

City: Middletown State: NJ ZIP: 07748

**6. Total number of applications and patents involved:**

1

7. Total fee (37 CFR 3.41).....\$ 40.00

**Enclosed**

☒ Authorized to be charged to deposit account

**8. Deposit account number:**

01-2745

(Attach duplicate copy of this page if paying by deposit account)

05/11/1998 JSHADAZZ 00000099 012745 09063765  
Sale Ref: 00000099 DAB: 012745 09063765  
01 FC:5A1 40.00 CH

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**9. Statement and signature.**

***To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.***

Stephen M. Gurey

Name of Person Signing Reg. No. 27338

Signature \_\_\_\_\_

Date \_\_\_\_\_

Lo 1-

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks/Box Assignments  
Washington, D.C. 20231

## ASSIGNMENT AND AGREEMENT

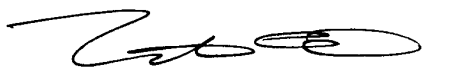
For value received, we, Titus Lo, of Redmond in the County of King and State of Washington, and Vahid Tarokh, of Madison in the County of Morris and State of New Jersey, hereby sell, assign and transfer to AT&T Wireless Services, Inc., a corporation of the State of Delaware, having an office at 5000 Carillon Point, Kirkland, Washington 98033, 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 **Near-Optimal Low-Complexity Decoding Of Space-Time Codes For Fixed Wireless Applications** described in an application for Letters Patent of the United States, executed by us of even date herewith and based on our prior provisional application, Serial No. 60/068613 filed December 23, 1997, and all the rights and privileges in said applications 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 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 applications 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 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 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 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.

We 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.

We agree that, when requested, we 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.

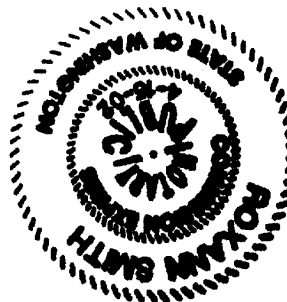
  
Titus Lo

Date: 4/14/98

United States of America )

State of Washington )ss:

County of King )



On this 14<sup>TH</sup> day of April, 1998, before me personally came Titus Lo, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public



Vahid Tarokh


Date: 4-3-98

United States of America )

State of )ss:

County of )

On this 3<sup>rd</sup> day of April, 1998, before me personally came Vahid Tarokh, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public  
an attorney at Law of N.J.