

10-16-2000

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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To the Honorable Assistant Commissioner of Patents: Please record the attached original documents or copy thereof.

<b>1. Name of conveying party(ies):</b>  Jari M. Heinonen Michael R. Hirano Steven E. McMeekin  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>2. Name and address of receiving party(ies):</b>  Name: <u>AT&amp;T Wireless Services, Inc.</u> Internal Address: _____  Street Address: <u>7277 164<sup>th</sup> Avenue NE</u>  City: <u>Redmond</u> State: <u>Washington</u> ZIP: <u>98052</u>  Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>3. Nature of conveyance:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other  Execution Date: <u>07/21/00; 07/27/00; 07/2400</u>			
<b>4. Application number(s) or patent number(s):</b> <u>MRD 9-11-00</u>  If this document is being filed together with a new application, the execution date of the application is _____  A. Patent Application No <u>09/594,886</u> B. Patent No. (s) _____  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>  Name: <u>Mr. Samuel H. Dworesky</u>  Street Address: <u>AT&amp;T Corp.</u> <u>P.O. Box 4110</u>  City: <u>Middletown</u> State: <u>New Jersey</u> ZIP: <u>07748-4110</u>		<b>6. Total number of applications and patents involved:</b> <u>1</u>  <b>7. Total fee (37 CFR 3.41) \$</b> <u>40.00</u>  <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account  <b>8. Deposit account number:</b> <u>01-2745</u>  (Attach duplicate copy of this page if paying by deposit account)	

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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.

Ann E. Taylor

Name of Person Signing

Ann E. Taylor  
Signature

Sept. 7, 2000  
Date

Docket No. 1999-0337 Total number of pages including cover sheet, attachments, and document: 5  
10/13/2000 DRYME 00000120 012745 09594886

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Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner of Patents, Box Assignments  
Washington, D. C. 20231

**PATENT**  
**REEL: 011148 FRAME: 0987**

## ASSIGNMENT AND AGREEMENT

For value received, we, Jari M. Heinonen, of Seattle in the County of King and State of Washington, Michael R. Hirano, of Redmond in the County of King and State of Washington, and Steven E. McMeekin, of Nederland in the County of Boulder and State of Colorado, hereby sell, assign and transfer to AT&T Wireless Services, Inc., a corporation of the State of Delaware, having an office at 7277 164<sup>th</sup> Avenue NE, Redmond, Washington 98052, 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 **Methods And Apparatus For Use In Obtaining Frequency Synchronization In An OFDM Communication System**, described in an application for Letters Patent of the United States, Serial No. 09/594,886, filed June 14, 2000, and based on our prior provisional application, Serial No. 60/140,990, filed June 23, 1999, 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 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 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.

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.

  
\_\_\_\_\_  
Jari M. Heinonen

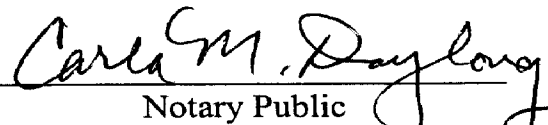
Date: 7/21/00

United States of America )

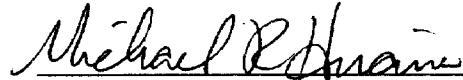
State of Washington )ss:

County of King )

On this 21st day of July, 2000 before me personally came Jari M. Heinonen, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
\_\_\_\_\_  
Notary Public

CARLA M. DAYLONG  
MY APPOINTMENT EXPIRES: 4-28-01

  
\_\_\_\_\_  
Michael R. Hirano

Date: 7/27/2000

United States of America )


State of Washington )ss:

County of King )

On this 27 day of July, 2000, before me personally came Michael R. Hirano, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
\_\_\_\_\_  
Notary Public

TRACY L. KENDALL  
MY APPOINTMENT EXPIRES: 4-28-01

  
Steven E. McMeekin

Date: July 27, 2000

United States of America )

State of Colorado )ss:

County of Boulder )

On this 27th day of July, 2000, before me personally came Steven E. McMeekin, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
Notary Public

my commission expires 12/28/2001

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