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FORM PTO-1595

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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks

Original documents or copy thereof.

1. Name of conveying party(ies):
**Habib Riazi, Zulfiqar Sayeed,
 Dunmin Zheng**
 Additional name(s) of conveying party(ies)
 attached?
 ___ Yes No

2. Name and address of receiving party(ies)
Name: Lucent Technologies Inc.
Internal Address:
**Street Address: 600 Mountain Avenue
 P.O. Box 636**
City: Murray Hill State: NJ ZIP: 07974-0636
 Additional name(s) & address(es) attached? ___ Yes No

3. Nature of conveyance:
 Assignment ___ Merger
 ___ Security Agreement ___ Change of Name
 ___ Other
 Execution Date: **October 11 and 12, 1999**

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:
 A. Patent Application No.(s) B. Patent No.(s)
09/398,502, filed September 17, 1999
 Additional numbers attached? ___ Yes No

5. Name and address of party to whom
 correspondence concerning document should be
 mailed:
Name: Kevin M. Mason
Internal Address: Ryan & Mason, L.L.P.
Street Address: 90 Forest Avenue
City: Locust Valley State: NY ZIP: 11560

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 12-2325

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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.

Kevin M. Mason Kevin M. Mason October 22, 1999
 Reg. No. 36,597 Signature Date

Total number of pages including cover sheet, attachments, and document: 12

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Riazi 3-11-3

10/27/1999 02 FC:561 PATENT REEL: 010333 FRAME: 0691

ASSIGNMENT AND AGREEMENT


For value received, we, Habib Riazi, of Stafford in the State of Virginia, Zulfiquar Sayeed, of East Windsor in the County of Mercer and State of New Jersey, and Dunmin Zheng, of Vienna in the State of Virginia, hereby sell, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, 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 a **METHOD AND APPARATUS FOR PERFORMING DIFFERENTIAL MODULATION OVER FREQUENCY IN AN ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING (OFDM) COMMUNICATION SYSTEM**, described in an application for Letters Patent of the United States, filed on September 17, 1999 and assigned Serial No. 09/398,502, 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 Lucent Technologies 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 Lucent Technologies 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 Lucent Technologies 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 Lucent Technologies Inc. in the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. they may designate.

We agree that, when requested, we shall, without charge to Lucent Technologies 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.



Habib Riazi

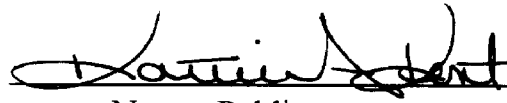
Date: 10/12/99

United States of America)

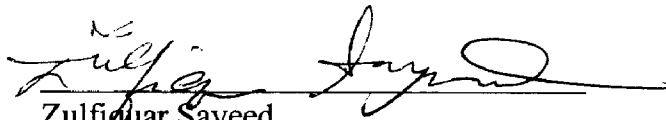
State of VIRGINIA) ss.:

County of ARLINGTON)

On this 12th day of OCTOBER, 1999, before me personally came Habib Riazi, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public


Zulfiqar Sayeed


Date: 10-11-99

United States of America)

State of New Jersey) ss.:

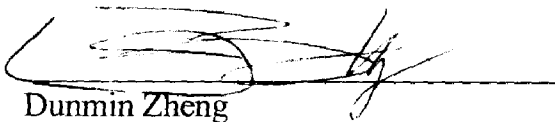
County of Monmouth)

On this 11TH day of Oct, 19 99, before me personally came Zulfiqar Sayeed, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

MARY L. BENSON
Notary Public of New Jersey
My Commission Expires June 3, 2004


Dunmin Zheng


Date: 10/12/99

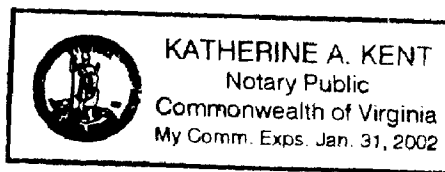
United States of America)

State of VIRGINIA) ss.:

County of ARLINGTON)

On this 12th day of OCTOBER, 1999, before me personally came Dunmin Zheng, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public



Ryan & Mason, L.L.P.
90 Forest Avenue
Locust Valley, NY 11560