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

<p>1. Name of conveying party(ies):  <b>Jack GLAS, Vladimir PRODANOV, and Maurice TARSIA</b></p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: <b>Lucent Technologies Inc.</b></p> <p>Internal Address:</p> <p>Street Address: <b>600 Mountain Avenue, P.O. Box 304639</b></p> <p>City: <b>Murray Hill</b> State: <b>NJ</b> ZIP: <b>07974-0636</b></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other</p> <p>Execution Date: <b>April 30, 1999</b></p>	

304639 U.S. PTO 05/04/99

4. Application number(s) or patent number(s): **09 304 639**

If this document is being filed together with a new application, the execution date of the application is: **April 30, 1999**

A. Patent Application No(s). \_\_\_\_\_ B. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No

05-19-1999 101039569

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <b>BIRCH, STEWART, KOLASCH &amp; BIRCH, LLP</b></p> <p>Internal Address: <b>P.O. Box 747 Falls Church, Virginia 22040-0747</b></p> <p>Street Address: <b>8110 Gatehouse Road, Suite 500 East</b></p> <p>City: <b>Falls Church</b> State: <b>VA</b> ZIP: <b>22042</b></p>	<p>6. Total number of applications and patents involved: <b>1</b></p> <p>7. Total fee (37 CFR 3.41): <b>\$ 40.00</b></p> <p><input type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <b>12-2325</b></p> <p>(Attach triplicate copy of this page if paying by deposit account)</p>
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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.*

**Gary D. Yacura** Reg. No. **35,416** *[Signature]* **May 4, 1999**  
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document **5**

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

PATENT REEL: 009948 FRAME: 0212

## ASSIGNMENT AND AGREEMENT

For value received, we, Jack GLAS of Basking Ridge in the County of Somerset and State of New Jersey, Vladimir PRODANOV of New Providence in the County of Union and State of New Jersey, and Maurice TARSIA of Colonia in the County of Middlesex and State of New Jersey, 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 MODULATING DIGITAL DATA** described in an application for Letters Patent of the United States, executed by us of even date herewith, 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. may designate.

**PATENT**  
**REEL: 009948 FRAME: 0213**

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.



\_\_\_\_\_  
Jack GLAS

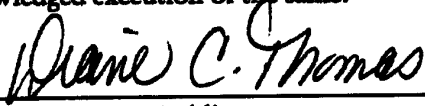
Date: April 30, 1999

United States of America )

State of New Jersey ) ss.:

City of Murray Hill )

On this 30 day of april, 1999, before me personally came Jack GLAS, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



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

**DIANE C. THOMAS**  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires July 11, 2001

**PATENT**  
**REEL: 009948 FRAME: 0214**



*Vladimir Prodanov*  
Vladimir PRODANOV

Date: 4/30/99

United States of America )

State of New Jersey ) ss.:

County of Union )

On this 30 day of April, 1999, before me personally came Vladimir PRODANOV, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

*Diane C. Thomas*  
Notary Public

DIANE C. THOMAS  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires July 11, 2001

PATENT  
REEL: 009948 FRAME: 0215

Maurice Tarsia  
Maurice TARSIA

Date: 4/30/99

United States of America )

State of New Jersey ) ss.:

County of Union )

On this 30 day of april, 1999, before me personally came Maurice TARSIA, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Diane C. Thomas  
Notary Public

DIANE C. THOMAS  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires July 11, 2001

Lucent Technologies Inc.  
600 Mountain Avenue (Room 3C-512)  
P. O. Box 636  
Murray Hill, New Jersey 07974-0636

RECORDED: 06/04/1999

PATENT  
REEL: 009948 FRAME: 0216