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To the Honorable Commissioner of Patents

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09/344138  
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1. Name of conveying party(ies):

Patrik Larsson  
Jean-Jacques Werner  
Jian Yang

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

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: June 22, 1999

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

09344138

If this document is being filed together with a new application, the execution date of the application is: June 24, 1999

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: Docket Administrator

Internal Address: Lucent Technologies Inc.

Street Address: 600 Mountain Avenue

City: Murray Hill State: NJ ZIP: 07974-0636

6. Total number of applications and patents involved:

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

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

12-2325

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

07/07/1999 NTHA11 00000101 122325 09344138

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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.

Joseph J. Opalach  
Name of Person Signing

[Signature]  
Signature

6/24/99  
Date

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

P. Larsson 21-51-11

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

PATENT

REEL: 010065 FRAME: 0362

## ASSIGNMENT AND AGREEMENT

For value received, we, Patrik Larsson, of Matawan in the County of Monmouth and State of New Jersey, Jean-Jacques Werner, of Holmdel in the County of Monmouth and State of New Jersey, and Jian Yang, of Marlboro in the County of 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 **Phase-Compensating Constant Modulus Algorithm** 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.

P. Larsson 21-51-11

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.

Patrik Larsson  
Patrik Larsson

Date: 6/22/99

United States of America )  
State of New Jersey ) ss.:  
County of Morris )

On this 22<sup>nd</sup> day of June, 1999, before me personally came Patrik Larsson, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Lourdes Chesal  
Notary Public

**LOURDES CHESAL**  
**Notary Public State of New Jersey**  
**My Commission Expires 4/24/2001**

Jean-Jacques Werner  
Jean-Jacques Werner

Date: 6/22/99

United States of America )  
State of New Jersey ) ss.:  
County of Monmouth )

On this 22nd day of June, 1999, before me personally came Jean-Jacques Werner, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Lourdes Chesal  
Notary Public

**LOURDES CHESAL**  
**Notary Public State of New Jersey**  
**My Commission Expires 4/24/2001**

Jian Yang  
Jian Yang

Date: 06/22/99

United States of America )  
State of New Jersey ) ss.:  
County of Monmouth )

On this 22<sup>nd</sup> day of June, 1999, before me personally came Jian Yang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Loures Chesal  
Notary Public

**LOURDES CHESAL**  
Notary Public State of New Jersey  
My Commission Expires 1/24/2001

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