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Form PTO-1595  
February 2, 2000

SHEET

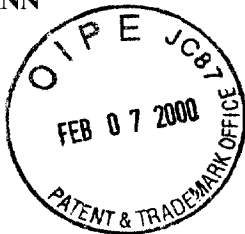
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TO THE COMMISSIONER OF PATENTS AND TRADEMARKS.  
Please record the attached original documents or copy thereof.

Attorney Docket No.: Bergmann 67-4

1. Name of conveying party(ies):

Ernest Eisenhardt BERGMANN  
Gail Ann BOGERT

2-7-00

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

Name: Lucent Technologies IncStreet Address: 600 Mountain AvenueP. O. Box 636City: Murray Hill State: New Jersey Zip: 07974-0636Additional names and addresses attached? ☐ yes ☒ noAdditional name(s) of conveying party(ies) attached?  
☐ yes ☒ no

3. Nature of Conveyance

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_

Execution Date: 1/20/00 and 1/24/00

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)

09/456,361

B. Patent No.(s):

N/A

Additional numbers attached? ☐ Yes ☒ No

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

Name: Lance J. Lieberman, Esq.

Internal Address:

Street Address: 551 Fifth Avenue, Suite 1210City: New York State: NY ZIP: 101766. Total number of applications and patents involved:  
**[1]**7. Total fee (37 C.F.R. 3.41)..... \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number: 12-2325

(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.*Chi K. Eng

Name of Person Signing

Reg. No. 38, 870

Signature

February 2, 2000

Date

Total number of pages including cover sheet, attachments and document **[3]**

OMB No. 0651-0011 (exp. 4/84)

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Mail documents to be recorded with required cover sheet information to:  
Assistant Commissioner for Patents, Box Assignments  
Washington, D.C. 20231PATENT  
REEL: 010560 FRAME: 0597

## **ASSIGNMENT AND AGREEMENT**

For value received, we, **Ernest Eisenhardt BERGMANN** of Bethlehem in the County of Lehigh and State of New Jersey, and **Gail Ann BOGERT** of Bethlehem in the County of Northampton 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 **Intersecting N x M Star Couplers for Routing Optical Signals** 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. 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.

Ernest Eisenhardt Bergmann  
**Ernest Eisenhardt BERGMANN**

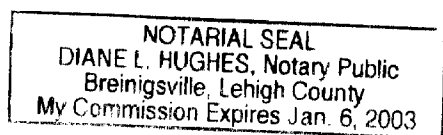
Date: January 24, 2000

United States of America )

State of Pennsylvania ) ss.:

County Lehigh )  
City of allentown )

On this 24th day of January, 2000, before me personally came **Ernest Eisenhardt BERGMANN**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Diane L Hughes  
Notary Public

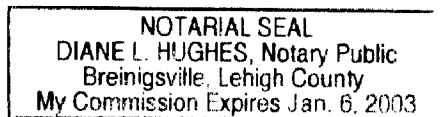
Date: 1/20/2000

United States of America )

State of Pennsylvania ) ss.:

County Lehigh )  
City of allentown )

On this 20th day of January, 2000, before me personally came **Gail Ann BOGERT**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Diane L Hughes  
Notary Public

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