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In the Honorable Commission of Patents and Trademarks, I have received the attached original documents or copy thereof.

1. Name of conveying party(ies):

Ernest E. Bergmann
Neal H. Thorsten

Additional name(s) of conveying party(ies) attached?

2. Name and address of receiving party(ies)

Name: Jucent Technologies Inc.

Internal Address: _____

Street Address: 600 Mountain Avenue

P. O. Box 636

City: Murray Hill State: NJ ZIP: 0636Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____Execution Date: 10/6/98; 10/14/98

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: 10/6/98; 10/14/98

A. Patent Application No.(s)

B. Patent No.(s)

09/175502

Additional numbers attached? ☐ Yes ☒ No

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

Name: Wendy W. Koba

Internal Address: _____

Street Address: P.O. Box 556City: Springtown State: PA ZIP: 180816. Total number of applications and patents involved: ☐ 17. Total fee (37 CFR 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)

DO NOT USE THIS SPACE

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.

Wendy W. Koba
Name of Person SigningWendy W. Koba
Signature10/20/98
DateTotal number of pages including cover sheet, attachments, and document: 5Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231PATENT
REEL: 9612 FRAME: 0677

ASSIGNMENT AND AGREEMENT

For value received, we, Ernest Eisenhardt Bergmann of Bethlehem in the County of Lehigh and State of Pennsylvania, and Neal Henry Thorsten of Lebanon in the County of Hunterdon 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 **Optical Circulator Using Latchable Garnet** 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: October 6, 1998

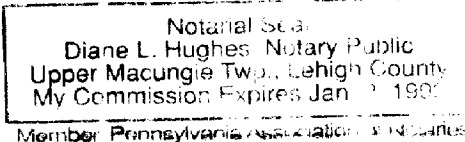
United States of America)

State of Pennsylvania) ss.:

County of Lehigh)

On this 6th day of October, 19 98, 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



Neal Henry Thorsten
Neal Henry Thorsten

Date: 10/14/98

United States of America)

State of Pennsylvania) ss.:

County of Lehigh)

On this 14th day of October, 19 98, before me personally came Neal Henry Thorsten, 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

