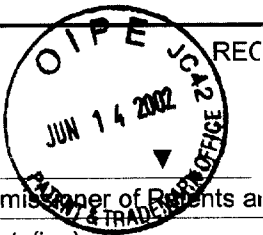


FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)
POB/REV03



06-24-2002



102132308

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks and _____ 102132308 _____
_____ red original documents or copy thereof.

1. Name of conveying party(ies):
KHUSHVINDER BRAR
CLIFFORD HEADLEY
JEAN-CHRISTOPHER BOUTELLER
JAKE BROMAGE
6-14-02
Additional names(s) of conveying party(ies) Yes No

2. Name and address of receiving party(ies):
Name: **LUCENT TECHNOLOGIES INC.**
Address: **600 MOUNTAIN AVENUE**
City: **MURRAY HILL** State/Prov.: **NJ**
Country: **USA** ZIP: **07974**
Additional name(s) & address(es) Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: **5/22/02; 5/22/02; 5/22/02; 6/5/02**

4. Application number(s) or patent numbers(s):
If this document is being filed together with a new application, the execution date of the application is: _____
Patent Application No. Filing date
10/098,940 **03/15/2002**
Additional numbers Yes No

B. Patent No.(s)
 Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **GLEN E. BOOKS, ESQ.**
Registration No. **14,950**
Address: **LOWENSTEIN SANDLER PC**
65 LIVINGSTON AVENUE
City: **ROSELAND** State/Prov.: **NJ**
Country: **USA** ZIP: **07068**

6. Total number of applications and patents involved: **1**
7. Total fee (37 CFR 3.41):.....\$ **40.00**
 Enclosed - Any excess or insufficiency should be credited or debited to deposit account
 Authorized to be charged to deposit account
8. Deposit account number:
501358
(Attach duplicate copy of this page if paying by deposit account)

06/21/2002 BYRNE 00000095 501358 10098940

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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.
GLEN E. BOOKS
Name of Person Signing

Glen E Books
Signature

6/7/2002

6

Date

Total number of pages including cover sheet, attachments, and

ASSIGNMENT AND AGREEMENT

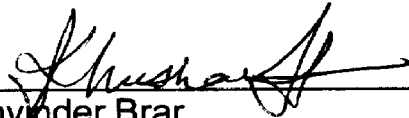
For value received, we, Khushyinder Brar of ^{KS} Center Valley, County of Bucks ^{MS} and State of New Jersey, Clifford Headley of Flemington, County of Hunterdon and State of New Jersey, Jean-Christopher Bouteiller of Somerset, County of Somerset and State of New Jersey and Jake Bromage of North Plainfield, State of New Jersey, 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 **SINGLE-SOURCE MULTIPLE ORDER RAMAN AMPLIFIER FOR OPTICAL TRANSMISSION SYSTEMS** described in an application for Letters Patent of the United States filed on March 15, 2002 under U.S. Serial No. 10/098,940 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.



Khushvinder Brar

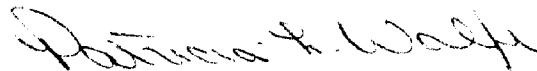
Date: 5/22/02

United States of America)

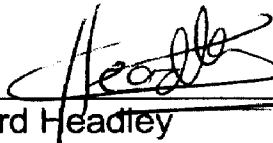
State of New Jersey) ss.:

County of Somerset)

On this 22nd day of May, 2002, before me personally came Khushvinder Brar, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



PATRICIA L. WOLFE
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 1/18/2008



Clifford Headley

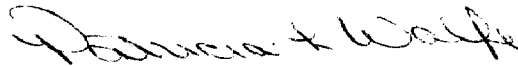
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United States of America)

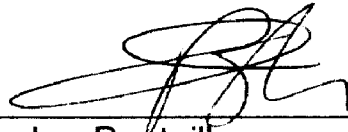
State of New Jersey) ss.:

County of Somerset)

On this 22 day of May, 2002, before me personally came Clifford Headley, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



PATRICIA L. WOLFE
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 1/18/2005



Jean-Christopher Bouteiller

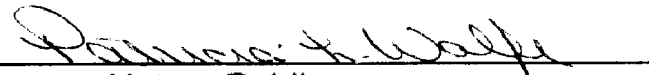
Date: 5/22/02

United States of America)

State of New Jersey) ss.:

County of Somerset)

On this 22nd day of May, 2002, before me personally came Jean-Christopher Bouteiller, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

PATRICIA L. WOLFE
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 1/18/2005

J. Bromage
Jake Bromage

Date: 6/5/2002

United States of America)

State of NEW JERSEY) ss.:

County of MONMOUTH)

On this 5th day of JUNE, 2002, before me personally came Jake Bromage, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

CHARLES L. WOLF
Notary Public of New Jersey
No. 2058705
My Commission Expires Apr. 25 192004

2004

Chris May
Notary Public

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