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02-14-2003

COMMERCE
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thereof.

To the Honorable Commissioner of Patents and Trademarks: Please re

1. Name of conveying party(ies): 2-12.03

- | | |
|------------------------|----------------------|
| 1. Federico Capasso | 5. Nina Owschimikow |
| 2. Alfred Yi Cho | 6. Deborah Lee Sivco |
| 3. Raffaele Colombelli | |
| 4. Claire F Gmachl | |

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Merger |
| <input type="checkbox"/> Security Agreement | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Other _____ | |

Execution Date(s): 12/30/02; 2/3/03; 1/24/03; 1/3/03;
1/3/03; 1/23/03

2. Name and address: 102366672

Name: Lucent Technologies Inc.

Internal Address: _____

Street Address: 600 Mountain Avenue
P.O. Box 636

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

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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)

10/261423

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: Room 3J-219

Street Address: 101 Crawfords Corner Road

City: Holmdel State: NJ ZIP: 07733-3030

6. Total number of applications and patents involved: 1

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)

02/13/2003 DBYRNE 00000077 122325 10261423

DO NOT USE THIS SPACE

01 FC: 002 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.

Jeffrey M. Weinick

Name of Person Signing

[Signature]
Signature

2/5/03

Date

Total number of pages including cover sheet, attachments, and document: 15 pages

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignment
Washington, D.C. 20231

Case Name/No.: Capasso 71-111-4-25-1-40

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, DC 20231, on Feb 5, 2003.

[Signature]
Signature

PATENT

REEL: 013745 FRAME: 0722

ASSIGNMENT AND AGREEMENT

For value received, we, Federico Capasso, of Westfield in the County of Union and the State of New Jersey, and Alfred Yi Cho, of Summit in the County of Union and the State of New Jersey, and Raffaele Colombelli, of Hoboken in the County of Hudson and the State of New Jersey, and Claire F Gmachl, of New Providence in the County of Union and the State of New Jersey, and Nina Owschimikow, of New Providence in the County of Union and the State of New Jersey, and Deborah Lee Sivco, of Warren in the County of Somerset and the 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 **Nonlinear Semiconductor Light Sources** described in an application for Letters Patent of the United States, Serial No. 10/261423, filed September 30, 2002, 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.

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.

Federico Capasso
Federico Capasso

Date: 12/30/2002

United States of America)

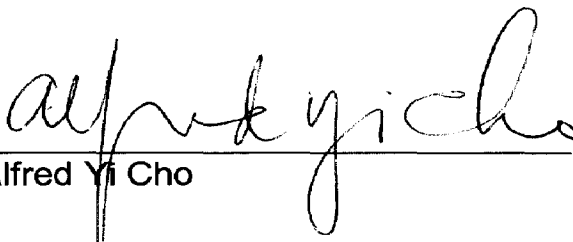
State of New Jersey) ss.:

County of Union)

On this 30th day of December, 2002, before me personally came, Federico Capasso to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Catherine F. Dugan
Notary Public

CATHERINE F. DUGAN
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 1/17/2007



Alfred Yi Cho

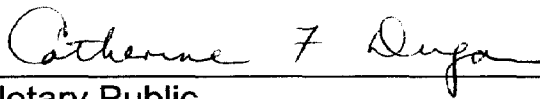
Date: Feb 3, 2003

United States of America)

State of New Jersey) ss.:

County of Union)

On this 3rd day of February, 2003, before me personally came, Alfred Yi Cho to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

CATHERINE F. DUGAN
NOTARY PUBLIC OF NEW JERSEY
Commission Expires: 1/17/2007

Raffaele Colombelli
Raffaele Colombelli

Date: 1/24/03

United States of America)

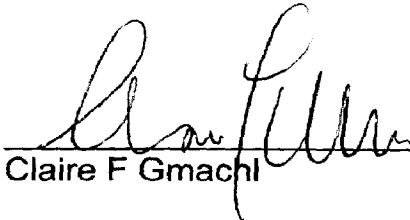
State of New Jersey) ss.:

County of Union)

On this 24th day of January, 2003, before me personally came, Raffaele Colombelli to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Catherine F. Dugan
Notary Public

CATHERINE F. DUGAN
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 12/7/2007



Claire F Gmachl

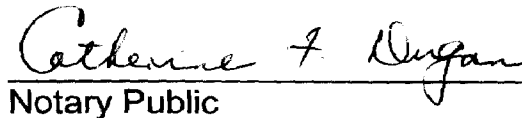
Date: 1/3/03

United States of America)

State of New Jersey) ss.:

County of Union)

On this 3rd day of January, 2003, before me personally came, Claire F Gmachl to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

CATHERINE F. DUGAN
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 1/17/2007

Nina Owschimikow

Date: _____

United States of America)

State of _____) ss.:

County of _____)

On this _____ day of _____, 20____, before me personally came, Nina Owschimikow to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Deborah Lee Sivco
Deborah Lee Sivco

Date: 1-3-03

United States of America)

State of New Jersey) ss.:

County of Union)

On this 3rd day of January, 2003, before me personally came, Deborah Lee Sivco to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Catherine F. Dugan
Notary Public

CATHERINE F. DUGAN
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 1/17/2007

Lucent Technologies Inc.
Docket Administrator (Room 3J-219)
Lucent Technologies Inc.
101 Crawfords Corner Road
Holmdel, NJ 07733-3030

ASSIGNMENT AND AGREEMENT

For value received, we, Federico Capasso, of Westfield in the County of Union and the State of New Jersey, and Alfred Yi Cho, of Summit in the County of Union and the State of New Jersey, and Raffaele Colombelli, of Hoboken in the County of Hudson and the State of New Jersey, and Claire F Gmachl, of New Providence in the County of Union and the State of New Jersey, and Nina Owschlmikow, of New Providence in the County of Union and the State of New Jersey, and Deborah Lee Sivco, of Warren in the County of Somerset and the 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 **Nonlinear Semiconductor Light Sources** described in an application for Letters Patent of the United States, Serial No. 10/261423, filed September 30, 2002, 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.

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.

Federico Capasso
Federico Capasso

Date: 12/30/2002

United States of America)

State of New Jersey) ss.:

County of Union)

On this 30th day of December, 2002, before me personally came, Federico Capasso to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Catherine F. Dugan
Notary Public

CATHERINE F. DUGAN
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 1/17/2007

Alfred Yi Cho

Date: _____

United States of America)

State of _____) ss.:

County of _____)

On this _____ day of _____, 20____, before me personally came, Alfred Yi Cho to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Raffaele Colombelli

Date: _____


United States of America)

State of _____) ss.:

County of _____)

On this _____ day of _____, 20____, before me personally came, Raffaele Colombelli to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public



Claire F Gmachl

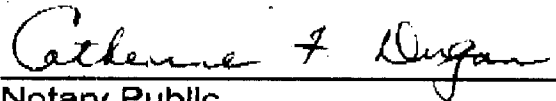
Date: 1/3/03

United States of America)

State of New Jersey) ss.:

County of Union)

On this 3rd day of January, 2003, before me personally came, Claire F Gmachl to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

CATHERINE F. DUGAN
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 1/17/2007

Nina Owschimikow
Nina Owschimikow

Date: 1/23/03

United States of America)

State of) ss.:

County of)

On this _____ day of _____, 20____, before me personally came, Nina Owschimikow to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

Deborah Lee Sivco
Deborah Lee Sivco

Date: 1-3-03

United States of America)

State of New Jersey) ss.:

County of Union)

On this 3rd day of January, 2003, before me personally came, Deborah Lee Sivco to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Catherine F. Dugan
Notary Public

CATHERINE F. DUGAN
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 1/17/2007

Lucent Technologies Inc.
Docket Administrator (Room 3J-219)
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101 Crawfords Corner Road
Holmdel, NJ 07733-3030