

07-31-2000

FORM PTO-1595 (Modified)  
(Rev. 6-93)  
OMB No. 0651-0011 (exp 4/94)  
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P08/REV02

IEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office



7-24-00

Tab settings

101418289

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

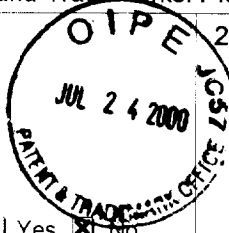
1. Name of conveying party(ies):

**CHOI, KYUNG MOON  
JIN, SUNGHO**

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

Name: **LUCENT TECHNOLOGIES INC.**

Internal Address: **POB 636**



Additional names(s) of conveying party(ies)  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Street Address: **600-700 MOUNTAIN AVENUE**

City: **MURRAY HILL** State: **NJ** ZIP: **07974**

Execution Date: **AUGUST 23, AUGUST 19, 1999**

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

4. Application number(s) or registration numbers(s):

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

A. Patent Application No.(s)

B. Patent No.(s)

**09/354,928**

**07/25/2000 VVAN22 00000007 09354928**

**02 FC:581**

**40.00 DP**

Additional numbers attached?  Yes  No

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

Name: **GLEN E. BOOKS, ESQ.**

Internal Address: **MATHEWS, COLLINS, SHEPHERD  
& GOULD, P.A.**

Street Address: **100 THANET CIRCLE, SUITE 306**

City: **PRINCETON** State: **NJ** ZIP: **08540**

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:

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.

**Glen E. Books**

**July 20, 2000**

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **4**

**PATENT**

**REEL: 010946 FRAME: 0731**

## ASSIGNMENT AND AGREEMENT

For value received, we, Kyung Moon Choi of Scotch Plains in the County of Union and State of New Jersey, and Sungho Jin of Millington in the County of Morris 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 **NANOSCALE CONDUCTIVE CONNECTORS AND METHOD FOR MAKING SAME** described in an application for Letters Patent of the United States, Serial No. 09/354,928, filed July 15, 1999, 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.

I 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.

I 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.

I 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.

I agree that, when requested, I 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.

Kyung M. Choi  
Kyung Moon Choi

Date: Aug 23 / 99

United States of America )

State of New Jersey ) ss.:

County of Union )

On this 23<sup>rd</sup> day of August, 1999, before me personally came Kyung Moon Choi, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Sheila R. Cole  
Notary Public

**SHEILA R. COLE**  
**A NOTARY PUBLIC OF NEW JERSEY**  
**My Commission Expires 10/18/2000**

*Sungho Jin*

Sungho Jin

Date: 8/19/99

United States of America )

State of *New Jersey* ) ss.:

County of *Union* )

On this 19<sup>th</sup> day of August, 1999, before me personally came Sungho Jin, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

*Sheila L. Cole*

Notary Public

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

**SHEILA R. COLE**  
**A NOTARY PUBLIC OF NEW JERSEY**  
**My Commission Expires 10/18/2000**

**Response To Notice To File Missing Parts Of Application  
Filing Date Granted (PTO-1533)(Large Entity)**

Docket No.  
**CHOI 3-183**

In Re Application Of: **CHOI ET AL.**

Serial No.	Filing Date	Examiner	Group Art Unit
09/354,928	07/15/99	TBA	1763

Invention: **NANOSCALE CONDUCTIVE CONNECTORS AND METHOD FOR MAKING THE SAME**

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Box Missing Parts

This is a response to the Notice to File Missing Parts of Application - Filing Date Granted (PTO-1533) mailed on AUGUST 11, 1999 .  
*Date*

Enclosed herewith for filing are the following:

- A copy of the Notice to File Missing Parts of Application - Filing Date Granted (PTO-1533). **(REQUIRED)**
- An oath or declaration in compliance with 37 CFR 1.63, including residence information and identifying the application by the above Application Number and Filing Date.
- A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date.
- An oath or declaration in compliance with 37 CFR 1.63 listing the names of all inventors and signed by the omitted inventor(s), identifying this application by the above Application Number and Filing Date.
- A verified English translation of the non-English language application papers as originally filed. It is requested that this translation be used as the copy for examination purposes in the United States Patent and Trademark Office.
- Other (list):

**ASSIGNMENT TO LUCENT TECHNOLOGIES INC.**

**Response To Notice To File Missing Parts Of Application  
Filing Date Granted (PTO-1533)(Large Entity)**

Docket No.  
**CHOI 3-183**

In Re Application Of: **CHOI ET AL.**

Serial No. <b>09/354,928</b>	Filing Date <b>07/15/99</b>	Examiner <b>TBA</b>	Group Art Unit <b>1763</b>
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Invention: **NANOSCALE CONDUCTIVE CONNECTORS AND METHOD FOR MAKING THE SAME**

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Box Missing Parts

Completion of application fees as calculated below:

- Utility application filing fee \_\_\_\_\_
- Design application filing fee \_\_\_\_\_
- Total number of independent claims = \_\_\_\_\_
- Total number of claims = \_\_\_\_\_
- Multiple dependent claims \_\_\_\_\_
- Surcharge for late payment of filing fee and/or late filing of original declaration or oath **\$130.00**
- Petition and fee for filing by other than all the inventors or a person not the inventor \_\_\_\_\_
- Fee for processing an application filed with a non-English language specification \_\_\_\_\_
- Fee for processing and retention of application \_\_\_\_\_

Total completion of application fees **\$130.00**

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a response to the above-identified Notice to File Missing Parts of Application. The requested extension is as follows (check time period desired). If an additional time extension is required, please consider this a petition therefor.

- One month     Two months     Three months     Four months     Five months

from: \_\_\_\_\_ until: \_\_\_\_\_  
Date Date

Total time extension fees \_\_\_\_\_

Total fees due **\$130.00**

**Response To Notice To File Missing Parts Of Application  
Filing Date Granted (PTO-1533) (Large Entity)**

Docket No.  
**CHOI 3-183**

In Re Application Of: **CHOI ET AL.**

Serial No.  
**09/354,928**

Filing Date  
**07/15/99**

Examiner  
**TBA**

Group Art Unit  
**1763**

Invention: **NANOSCALE CONDUCTIVE CONNECTORS AND METHOD FOR MAKING THE SAME**

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Box Missing Parts

The fee of **\$130.00** is to be paid as follows:

- A check in the amount of the fee is enclosed.
- The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account No.  
A duplicate copy of this sheet is enclosed.
- If an additional extension of time is required, please consider this a petition therefor and charge any additional fees which may be required to Deposit Account No.  
A duplicate copy of this sheet is enclosed.

  
*Signature*

Dated: **July 20, 2000**

**GLEN E. BOOKS, ESQ.  
REG. NO. 24,950**

**100 THANET CIRCLE, SUITE 306  
PRINCETON, NJ 08540**

**TEL. NO. (609) 924-8555  
FAX NO. (609) 924-3036**

I certify that this document and fee is being deposited on  
**JULY 20, 2000** with the U.S. Postal Service as first  
class mail under 37 C.F.R. 1.8 and is addressed to the  
Assistant Commissioner for Patents, Washington, D.C.  
20231.

  
*Signature of Person Mailing Correspondence*

**DELIA T. DRAKE**

*Typed or Printed Name of Person Mailing Correspondence*

CC:

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **NANOSCALE CONDUCTIVE CONNECTORS AND METHOD FOR MAKING SAME** the specification which was filed on July 15, 1999 under U.S. Serial No. 09/354,928.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by an amendment, if any, specifically referred to in this oath or declaration.

I acknowledge the duty to disclose all information known to me which is material to patentability as defined in Title 37, Code of Federal Regulations, 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

None

I hereby claim the benefit under Title 35, United States Code, 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, 112, I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

None

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



I hereby appoint the following attorney(s) with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith:

Lester H. Birnbaum	(Reg. No. 25830)
Richard J. Botos	(Reg. No. 32016)
Jeffery J. Brosemer	(Reg. No. 36096)
Kenneth M. Brown	(Reg. No. 37590)
Craig J. Cox	(Reg. No. 39643)
Donald P. Dinella	(Reg. No. 39961)
Guy Eriksen	(Reg. No. 41736)
Martin I. Finston	(Reg. No. 31613)
James H. Fox	(Reg. No. 29379)
William S. Francos	(Reg. No. 38456)
Barry H. Freedman	(Reg. No. 26166)
Julio A. Garceran	(Reg. No. 37138)
Mony R. Ghose	(Reg. No. 38159)
Jimmy Goo	(Reg. No. 36528)
Anthony Grillo	(Reg. No. 36535)
Stephen M. Gurey	(Reg. No. 27336)
John M. Harman	(Reg. No. 38173)
Michael B. Johannesen	(Reg. No. 35557)
Mark A. Kurisko	(Reg. No. 38944)
Irena Lager	(Reg. No. 39260)
Christopher N. Malvone	(Reg. No. 34866)
Scott W. McLellan	(Reg. No. 30776)
Martin G. Meder	(Reg. No. 34674)
John C. Moran	(Reg. No. 30782)
Michael A. Morra	(Reg. No. 28975)
Gregory J. Murgia	(Reg. No. 41209)
Claude R. Narcisse	(Reg. No. 38979)
Joseph J. Opalach	(Reg. No. 36229)
Neil R. Ormos	(Reg. No. 35309)
Eugen E. Pacher	(Reg. No. 29964)
Jack R. Penrod	(Reg. No. 31864)
Daniel J. Piotrowski	(Reg. No. 42079)
Gregory C. Ranieri	(Reg. No. 29695)
Scott J. Rittman	(Reg. No. 39010)
Eugene J. Rosenthal	(Reg. No. 36658)
Bruce S. Schneider	(Reg. No. 27949)
Ronald D. Slusky	(Reg. No. 26585)
David L. Smith	(Reg. No. 30592)
Patricia A. Verlangieri	(Reg. No. 42201)
John P. Veschi	(Reg. No. 39058)
David Volejnicek	(Reg. No. 29355)
Charles L. Warren	(Reg. No. 27407)
Jeffrey M. Weinick	(Reg. No. 36304)

Eli Weiss

(Reg. No. 17765)

I hereby appoint the attorney(s) on ATTACHMENT A as associate attorney(s) in the aforementioned application, with full power solely to prosecute said application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected with the prosecution of said application. No other powers are granted to such associate attorney(s) and such associate attorney(s) are specifically denied any power of substitution or revocation.

Full name of 1st joint inventor: Kyung Moon Choi

Inventor's signature Kyung M. Choi Date Aug 23/99

Residence: Scotch Plains, County of Union and State of New Jersey

Citizenship: Korea

Post Office Address: 50 Spruce Mill Lane  
Scotch Plains, New Jersey 07076

Full name of 2nd joint inventor: Sungho Jin

Inventor's signature Sungho Jin Date 8/19/99

Residence: Millington, County of Morris and State of New Jersey

Citizenship: United States of America

Post Office Address: 145 Skyline Drive  
Millington, New Jersey 07946

**ATTACHMENT A**

Attorney Name(s):	Bruce M. Collins	Reg. No.:	20,066
	Ronald Gould	Reg. No.:	28,299
	Diane Dunn McKay	Reg. No.:	34,586
	Glen E. Books	Reg. No.	24,950
	Anastasia P. Winslow	Reg. No.:	40,875
	Charles J. Brumlik	Reg. No.:	42,367

Telephone calls should be made to Glen E. Books at:

Phone No.: 609-924-8555

Fax No.: 609-924-3036

All written communications are to be addressed to:

Glen E. Books, Esq.  
Mathews, Collins, Shepherd & Gould, P.A.  
100 Thanet Circle, Suite 306  
Princeton, NJ 08540