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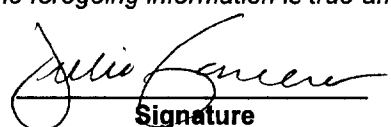
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To the Honorable Commissioner of Patents and

original documents or copy thereof.

<p>1. Name of conveying party(ies): Michael James Manfra Loren Neil Pfeiffer Kenneth William West Yiu-Huen Wong</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: Lucent Technologies Inc. Street Address: 600 Mountain Avenue P. O. Box 636 Murray Hill, NJ 07974-0636</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: July 22, 23, 26, & 27, 1999</p>	<p>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: July 29, 1999</p> <p>A. Patent Application No.(s) B. Patent No. (s) <i>09/363527</i></p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p>	<p>6. Total number of applications and patents involved:</p>
<p>Name: Docket Administrator Internal Address: Room 3C-512 Street Address: 600 Mountain Avenue P. O. Box 636 Murray Hill, New Jersey 07974-0636</p>	<p>7. Total fee (37 CFR 3.41) \$40.00</p> <p><input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: 12-2325 (Attach duplicate copy of this page if paying by deposit account)</p>
<p>9. Statement and signature:</p> <p><i>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.</i></p> <p>Julio A. Garceran  JUL 29 1999 Name of Person Signing Signature Date</p>	

10511 U.S. PTO
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08/05/1999 NTHAI1 00000091 122325 09363527 Total number of pages including Assignment, Cover Sheet, and attachments: 6
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Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box: Assignments, Washington, D. C. 20231

Manfra 1-17-13-45

ASSIGNMENT AND AGREEMENT

For value received, we, Michael James Manfra, of Short Hills in the County of Essex and State of New Jersey, Loren Neil Pfeiffer, of Morristown in the County of Morris and State of New Jersey, Kenneth William West, of Mendham in the County of Morris and State of New Jersey, and Yiu-Huen Wong, of Summit in the County of Union 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 **Thin Film Resonator Apparatus And Method Of Making Same** 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. may designate.

M.J. Manfra 1-17-13-45

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.

Michael Manfra
Michael James Manfra

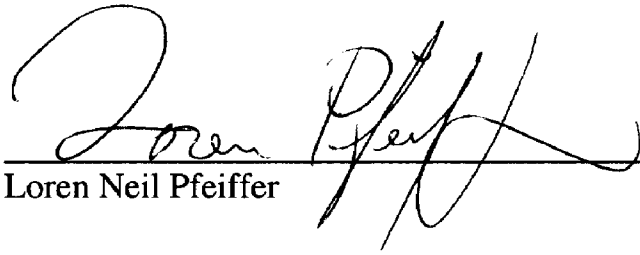
Date: 7/26/99

United States of America)
State of New Jersey) ss.:
County of Union)

On this 26th day of July, 19 99, before me personally came Michael James Manfra, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Angelina Cagliostro
Notary Public

ANGELINA CAGLIOSTRO
A NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 1/21/2004


Loren Neil Pfeiffer

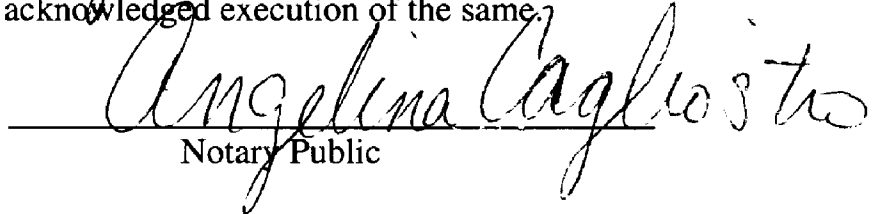
Date: 7-27-99

United States of America)

State of New Jersey) ss.:

County of Union)

On this 27th day of July, 1999, before me personally came Loren Neil Pfeiffer, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

ANGELINA CAGLIOSTRO
A NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 1/21/2004

Kenneth W West
Kenneth William West

Date: 7-22-99

United States of America)

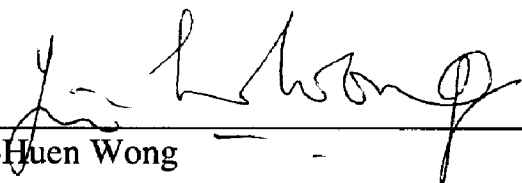
State of New Jersey) ss.:

County of Union)

On this 22nd day of July, 1999, before me personally came Kenneth William West, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Angelina Cagliostro
Notary Public

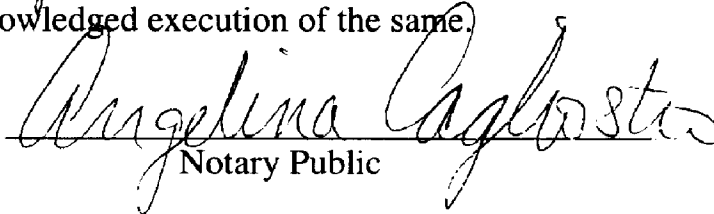
ANGELINA CAGLIOSTRO
A NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 1/21/2004


Yiu-Huen Wong

Date: 7/23/99

United States of America)
State of New Jersey) ss.:
County of Union)

On this 23rd day of July, 1999, before me personally came Yiu-Huen Wong, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

ANGELINA CAGLIOSTRO
A NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 1/21/2004

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