

Form PTO-1619A
Expires 06/30/99
OMB 0651-0027

03-21-2001

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Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other _____

U.S. Government
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Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Execution Date

Month Day Year

Name (line 1) Dautartas, Mindaugas F.

2/15/01

Name (line 2) _____

Execution Date

Month Day Year

Second Party

Name (line 1) Freund, Joseph Michael

1/3/01

Name (line 2) _____

09/790810

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) Lucent Technologies, Inc.

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2) _____

Address (line 1) 600 Mountain Avenue

Address (line 2) _____

Address (line 3) Murray Hill
City

NJ
State/Country

07974 -
Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Thomas J. D'Amico (28,371)

Address (line 1) DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP

Address (line 2) 2101 L Street NW

Address (line 3) Washington, DC 20037-1526

Address (line 4) _____

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Form PTO-1619B
Expires 06/30/99
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U.S. Department of Commerce
Patent and Trademark Office
PATENT

Correspondent Name and Address **Area Code and Telephone Number** (202) 828-2232

Name Thomas J. D'Amico

Address (line 1) DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP

Address (line 2) 2101 L Street NW

Address (line 3) Washington, DC 20037-1526

Address (line 4) _____

Pages Enter the total number of pages of the attached conveyance document including any attachments. # _____

Application Number(s) or Patent Number(s) Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)			Patent Number(s)		
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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned

PCT PCT PCT

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Number of Properties Enter the total number of properties involved. # 1

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment: Enclosed Deposit Account

Deposit Account

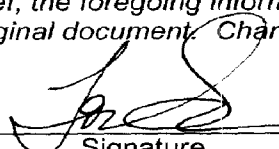
(Enter for payment by deposit account or if additional fees can be charged to the account.)

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Authorization to charge additional fees: Yes No

Statement and Signature

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Thomas J. D'Amico  February 23, 2001

Name of Person Signing Signature Date

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Conveying Party(ies)

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Execution Date
Month Day Year

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Name (line 1)

Name (line 2)

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City State/Country Zip Code

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

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Patent Application Number(s)

Patent Number(s)

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ASSIGNMENT AND AGREEMENT

For value received, we, Joseph M. Freund; George J. Przybylek; and Mindaugas F. Dautartas, of Fogelsville, Pennsylvania, Douglasville, Pennsylvania and Blacksburg, Virginia, in the County Lehigh, Berks and Montgomery and State of Pennsylvania and Virginia, 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 A METHOD FOR INTERCONNECTING SEMICONDUCTOR ELEMENTS TO FORM A THERMOELECTRIC COOLER AND A THERMOELECTRIC COOLER FORMED THEREFROM 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.

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.

Joseph M. Freund
Joseph/M. Freund

Date: 1/3/2001

United States of America)
State of Pennsylvania)ss.:
County of Lehigh)

On this 3rd day of January, 2001, before me personally came Joseph M. Freund, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Mary Ellen Dobish
Notary Public

Notarial Seal
Mary Ellen Dobish, Notary Public
Allentown, Lehigh County
My Commission Expires Nov. 6, 2004
Member, Pennsylvania Association of Notaries

George J. Przybylek
George J. Przybylek

Date: 1/3/2001

United States of America)
State of Pennsylvania)ss.:
County of Lehigh)

On this 3rd day of January, 2001, before me personally came George J. Przybylek, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Mary Ellen Dobish
Notary Public

Notarial Seal
Mary Ellen Dobish, Notary Public
Allentown, Lehigh County
My Commission Expires Nov. 6, 2004
Member, Pennsylvania Association of Notaries

Mindaugas F. Dautartas
Mindaugas F. Dautartas

Date: 2/15/01

United States of America)
State of Virginia)ss.:
County of Montgomery)

On this 15th day of February, 2001, before me personally came Mindaugas F. Dautartas, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Cheryl Williams
Notary Public