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08-27-1998

Form PTO-1005
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GAS No. 001-0011 (imp. 4/94)

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SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Tab settings

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

1. Name of conveying party(ies):

Mark H. Etzel, Robert John Frank, Daniel Nelson Heer, Robert Joseph McNelis, Semyon B. Mizikovsky, Robert John Rance and
Additional name(s) of conveying party(ies) attached? Yes No R. Date Shipp

2. Name and address of receiving party(ies)

Name: Lucent Technologies Inc.

Internal Address: _____

AUG 21 1998

Street Address: 600 Mountain Avenue

City: Murray Hill State: NJ ZIP: 07974

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: 6/29/98, 6/30/98, 7/1/98, 8/7/98, 8/14/98

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) 09/059,107

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Peter H. Priest

Internal Address: _____

Law Offices of Peter H. Priest

Street Address: 529 Dogwood Drive

City: Chapel Hill State: NC ZIP: 27516

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)

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 true copy of the original document.

Peter H. Priest

Name of Person Signing

Peter H. Priest
Signature

August 19, 1998

7

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

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignment Unit
Washington, DC 20231

REEL: 9404 FRAME: 0294

09/26/1998 12:23 09/059,107 40.00 CH 01 FC:58

ASSIGNMENT AND AGREEMENT

For value received, we, Mark H. Etzel, County of Worcester, City of Harvard, State of Massachusetts; Robert John Frank, County of Montgomery, City of Silver Spring, State of Maryland; Daniel Nelson Heer, County of Rockingham, City of Newton, State of New Hampshire; Robert Joseph McNelis, County of Howard, City of Columbia, State of Maryland; Semyon B. Mizikovsky, County of Monmouth, City of Morganville, State of New Jersey; Robert John Rance, County of Essex, City of Andover, State of Massachusetts; and R. Dale Shipp, County of Howard, City of Columbia, State of Maryland, 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, hereinafter collectively Lucent Technologies, Inc., the entire right, title and interest, for the United States of America, in and to certain inventions related to **METHODS AND APPARATUS FOR MULTIPLE-ITERATION CMEA ENCRYPTION AND DECRYPTION FOR IMPROVED SECURITY FOR WIRELESS TELEPHONE MESSAGES** described in U.S. Serial No. 09/059,107, filed April 13, 1998, 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 to Lucent Technologies Inc. in all countries foreign to the United States, or to such nominees as they may designate.

We agree that, when requested, we shall, without charge to Lucent Technologies Inc., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

[Signature]
Mark H. Etzel

Date: 8-17-98

United States of America)

State of Massachusetts) ss.:

County of Essex)

On this 7 day of August, 1998, before me personally came Mark H. Etzel, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]
TERESA J. GILLOTTI
Notary Public
My Commission Expires November 6, 2003

[Signature]
Robert John Frank

Date: June 30, 1998

United States of America)

State of Maryland) ss.:

County of Howard)

On this 30th day of June, 1998, before me personally came Robert John Frank, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]
Notary Public

PATRICIA L. SPURIN
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires January 6, 2001

Daniel Nelson Heer
Daniel Nelson Heer

Date: 8/17/98

United States of America)

State of Massachusetts) ss.:

County of Essex)

On this 7 day of August, 1998, before me personally came Daniel Nelson Heer, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Teresa J. Sielicki
Notary Public

TERESA J. SIELICKI
Notary Public
My Commission Expires November 6, 2003

Robert Joseph McNelis
Robert Joseph McNelis

Date: July 1, 1998

United States of America)

State of Maryland) ss.:

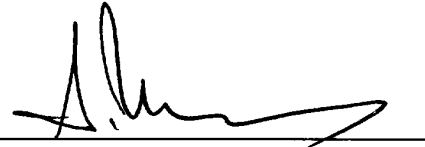
County of Howard)

On this 1st day of July, 1998, before me personally came Robert Joseph McNelis, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

DANA M. BORTZ
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires June 2, 1999

Dana M Bortz
Notary Public

PATENT
REEL: 9404 FRAME: 0297



Semyon B. Mizikovsky

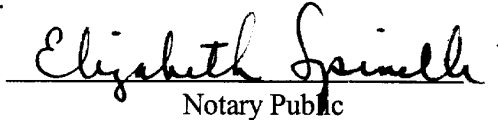
Date: August 14, 1998

United States of America)

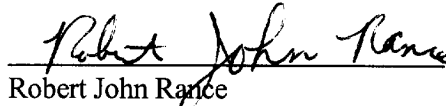
State of New Jersey) ss.:

County of Morris)

On this 14th day of Aug, 1998, before me personally came Semyon B. Mizikovsky, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

ELIZABETH SPINELLI
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 4/24/2002


Robert John Rance

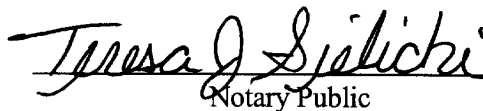
Date: 8-7-98

United States of America)

State of Massachusetts) ss.:

County of Essex)

On this 7 day of August, 1998, before me personally came Robert John Rance, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

TERESA J. SHELICKI
NOTARY PUBLIC
My Commission Expires November 6, 2003
REEL: 9404 FRAME: 0298

R Dale Shipp
R. Dale Shipp

Date: 29 Jun 98

United States of America)

State of Maryland) ss.:

County of Howard)

On this 29 day of June, 1998, before me personally came R. Dale Shipp, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

MICHAEL GREASLEY
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires August 9, 1998

Michael Greasley
Notary Public