

FORM P  
(Rev. 6-95)  
OMB No. 05  
1 (exp. 4/94)

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office



Tab settings

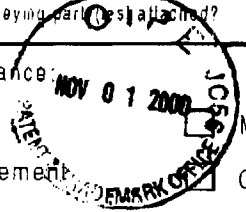
101597034

hed original documents or copy thereof.

1. Name of conveying party(ies):  
 MRD  
 11/1/00  
 Lihua Xie  
 Arianne Michelle Lewis  
 Evert Basch  
 Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
 Name: VERIZON LABORATORIES INC.  
 Internal Address:  
 Street Address: 40 Sylvan Rd.  
 City: Waltham State: MA ZIP: 02451  
 Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
 Execution Date: 8/28/2000; 9/21/2000; 8/14/2000; 9/13/00



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) 09/627,748  
 B. Patent No.(s)  
 Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: Leonard Charles Suchyta  
 Internal Address: Verizon Services Group  
 HQE03G13  
 Street Address: 600 Hidden Ridge  
 City: Irving State: TX ZIP: 75038

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: 40E  
 07-2339  
 (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 a true copy of the original document.  
 James K. Weixel, Reg. No. 44,399  
 Name of Person Signing Signature Date 10/12/2000  
 Total number of pages including cover sheet, attachments, and document: 8

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

FORM PTO-1595

RECORDATION FORM COVER SHEET U.S.

DEPARTMENT OF COMMERCE

PATENTS ONLY

Patent and Trademark Office

(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)

1. Name of conveying party(ies):

Gonzalo Arce  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional name(s) of conveying party(ies) attached?

Yes  No

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

Name: \_\_\_\_\_

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Name: \_\_\_\_\_

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

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)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. Patent No.(s)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional numbers attached?

Yes  No

# ASSIGNMENT

For good and valuable consideration which we hereby acknowledge.

we, **Liehua Xie**  
**Arianne Michelle Lewis**  
**Evert Basch**  
**Gonzalo Arce**

residing (respectively) at

190 Laurel Way, Apt. 3A, Herndon, VA 20170  
57 Broadlawn Park, #21, Chestnut Hill, MA 02467  
75 Whitman Street, Stow, MA 01775  
5439 Pinehurst Drive, Wilmington, DE 19808

sell and assign to **VERIZON LABORATORIES INC.**, a Delaware corporation, its successors and assigns (hereinafter "Company"), all right, title and interest in our invention in

## SYSTEMS AND METHODS FOR ETCHING DIGITAL WATERMARKS

and the application for United States Patent therefor executed concurrently herewith, and all Patents which may be granted therefor, including re-examination Patents in all foreign countries, and all divisions, reissues, re-examinations, continuations and extensions thereof, and authorize and request the Commissioner of Patents to issue all Patents on said invention or resulting therefrom to said Company as assignee of the entire interest, and covenant that we have full right so to do and agree that we will communicate to said Company or its representatives any facts known to us respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said invention, in the United States and all foreign countries.

Inventor Lie Xie Date 8/28/2000  
Address Liehua Xie  
190 Laurel Way, Apt. 3A, Herndon, VA 21070

Witness Hao Teng Date 8/28/2000  
Address 190 Laurel Way, Apt. 3A, Herndon, VA 20170

Witness Jama (RAGULAMAN) Date 08/29/00  
Address 2300, 24<sup>th</sup> ROAD, ARLINGTON, VA, 22206.

Inventor \_\_\_\_\_ Date \_\_\_\_\_  
Address Arianne Michelle Lewis  
57 Broadlawn Park, #21, Chestnut Hill, MA 02467

Witness \_\_\_\_\_ Date \_\_\_\_\_

Address \_\_\_\_\_

Witness \_\_\_\_\_ Date \_\_\_\_\_

Address \_\_\_\_\_

### ASSIGNMENT

For good and valuable consideration which we hereby acknowledge,

we, Lihua Xie  
Arienne Michelle Lewis  
Evert Basch  
Gonzalo Arce

residing (respectively) at

190 Laurel Way, Apt. 3A, Herndon, VA 20170  
57 Broadlawn Park #21 Chestnut Hill, MA 02467  
75 Whitman, Street Stow, MA 01775  
5439 Pinehurst Drive Wilmington, DE 19808

sell and assign to **VERIZON LABORATORIES INC.**, a Delaware corporation, its successors and assigns (hereinafter "Company"), all right, title and interest in our invention in

### SYSTEMS AND METHODS FOR ETCHING DIGITAL WATERMARKS

and the application for United States Patent therefor executed concurrently herewith, and all Patents which may be granted therefor, including re-examination Patents in all foreign countries, and all divisions, reissues, re-examinations, continuations and extensions thereof, and authorize and request the Commissioner of Patents to issue all Patents on said invention or resulting therefrom to said Company as assignee of the entire interest, and covenant that we have full right so to do and agree that we will communicate to said Company or its representatives any facts known to us respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said invention, in the United States and all foreign countries.

Inventor Lihua Xie Date \_\_\_\_\_  
Address 190 Laurel Way, Apt. 3A, Herndon, VA 20170

Witness \_\_\_\_\_ Date \_\_\_\_\_  
Address \_\_\_\_\_

Witness \_\_\_\_\_ Date \_\_\_\_\_  
Address \_\_\_\_\_

Inventor Arienne Michelle Lewis Date 9/21/2000  
Address 57 Broadlawn Park #21 Chestnut Hill, MA 02467

Witness Andrew S. Brooks Date 9/21/2000  
Address 27 Assabet Hill Circle, Northboro, MA

Witness Mu-Cheng Wang Date 9/21/2000  
Address 48 Great Rd, Apt. #31, MA 01720

Inventor *E. Basch*  
 Evert Basch  
 Address 75 Whitman Street Stow, MA 01775

Date 8/17/00

Witness *Robert McHugh*  
 Address 903 Washington Street

Date 8/17/2000

Whitman, MA 02382

Witness *Mary E. Arce*  
 Address 396 Highland St, Waltham, MA 02453

Date 8/15/00

Inventor \_\_\_\_\_  
 Gonzalo Arce  
 Address 5439 Pinehurst Drive Wilmington, DE 19808

Date \_\_\_\_\_

Witness \_\_\_\_\_

Date \_\_\_\_\_

Address \_\_\_\_\_

Witness \_\_\_\_\_

Date \_\_\_\_\_

Address \_\_\_\_\_

PATENT

Inventor \_\_\_\_\_ Date \_\_\_\_\_  
 Address Evert Basch  
75 Whitman Street, Stow, MA 01775

Witness \_\_\_\_\_ Date \_\_\_\_\_  
 Address \_\_\_\_\_

Witness \_\_\_\_\_ Date \_\_\_\_\_  
 Address \_\_\_\_\_

Inventor Gonzalo Arce Date 9/13/00  
 Address 5439 Pinchurst Drive, Wilmington, DE 19808

Witness Kenneth M. Rusk Date 9/13/00  
 Address 24 BURMISTERS CT.  
NEWARK DE 19702

Witness Melissa A. Johnson Date 9/13/00  
 Address 1185 Brighton Boulevard, Kent  
Delaware, DE 19734