



Tab setting

To the Honorable Commissioner of Patents and

100959290

original documents or copy thereof.

## 1. Name of conveying party(ies):

William H. Quirk, IV

Additional name(s) of conveying party(ies) attached? ☒ Yes ☐ No

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

Name: Intelligent Verification  
Systems, Inc. (IVS)

Internal Address:

5018 Newcastle Lane

San Antonio, TX 78249

Street Address:

City: State: ZIP:

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

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: January 5, 1999

## 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)

5,386,103

Additional numbers attached? ☐ Yes ☒ No

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

Name: William H. Quirk

Internal Address: P.O. Box 659508

San Antonio, TX 78265

Street Address:

City: State: ZIP:

## 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:

500386

(Attach duplicate copy of this page if paying by deposit account)

02/04/1999 DCATES 00000198 500326 5386103

DO NOT USE THIS SPACE

01 FC:581 40.00 CH

## 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.

William H. Quirk

Name of Person Signing

Signature

2/2/99

Date

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 Assignments  
Washington, D.C. 20231PATENT  
REEL: 9731 FRAME: 0748

## Conveying Parties

## Execution Date

William H. Quirk, IV  
Kenneth Epstein  
R. William Graham  
Craig M. Arndt  
Tianning Xu  
David M. Tumey  
Abdou Deban

January 5, 1999  
December 28, 1998  
September 29, 1998  
October 15, 1998  
September 15, 1998  
September 16, 1998  
December 8, 1998

## ASSIGNMENT

WHEREAS, William H. Quirk IV, a citizen of the United States, residing at 508 Garraty Drive, San Antonio, Texas 78209 (hereinafter referred to as the "Assignor") hereby assigns, transfers and conveys to Intelligent Verification Systems (IVS), Inc., a corporation organized under the laws of the State of Texas, whose address is 5018 Newcastle Lane, San Antonio, Texas 78249, ("Assignee") the entire right, title and interest in and to United States Patent No. 5,386,103, issued January 31, 1995 for Identification and Verification System; and any divisions, continuations, reissues and extensions thereof, and all applications for Letters Patent, or similar legal protection which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States, and all extensions, renewals and reissues thereof or legal equivalent thereof.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials of any other country, to issue any Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the Assignee, its successors and assigns;

ASSIGNOR hereby further covenants and agrees that it will communicate to the said Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, 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 the said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent and similar protection for said improvements in all countries;

IN TESTIMONY WHEREOF, Assignor hereunto set its hand and seal this 5<sup>th</sup> day of ~~September, 1998~~ January 1999.

ASSIGNOR

By: William H. Quirk IV  
William H. Quirk IV

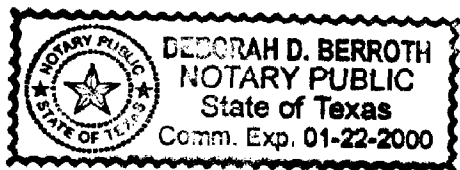
Date: Jan 5, 1999

STATE OF TEXAS  
COUNTY OF BEXAR

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Before me, the undersigned authority, on this day personally appeared WILLIAM H. QUIRK IV, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said Trustee.

Given under my hand and seal of office on this 5th day of ~~September, 1998~~ JANUARY, 1999.



*Deborah D Berroth*  
Notary Public in and for the  
State of Texas

My Commissioner Expires: 01-22-00

## ASSIGNMENT

WHEREAS, Kenneth Epstein, a citizen of the United States, residing at 1442 Finger Lake, Dayton, Ohio 45458 (hereinafter referred to as the "Assignor") hereby assigns, transfers and conveys to Intelligent Verification Systems (IVS), Inc., a corporation organized under the laws of the State of Texas, whose address is 5018 Newcastle Lane, San Antonio, Texas 78249, ("Assignee") the entire right, title and interest in and to United States Patent No. 5,386,103, issued January 31, 1995 for Identification and Verification System; and any divisions, continuations, reissues and extensions thereof, and all applications for Letters Patent, or similar legal protection which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States, and all extensions, renewals and reissues thereof or legal equivalent thereof.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials of any other country, to issue any Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the Assignee, its successors and assigns;

ASSIGNOR hereby further covenants and agrees that it will communicate to said Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, 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 the said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent and similar protection for said improvements in all countries;

IN TESTIMONY WHEREOF, Assignor hereunto set its hand and seal this 28th day of December 1998.

ASSIGNOR

By: 

Kenneth Epstein

Date: 12/28/98

STATE OF OHIO

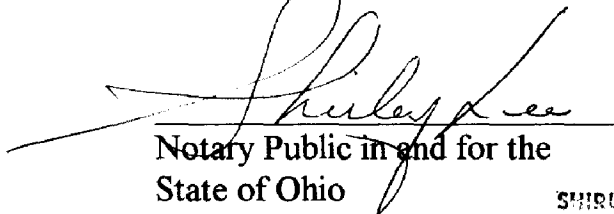
COUNTY OF

MONTGOMERY

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Before me, the undersigned authority, on this day personally appeared KENNETH EPSTEIN, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said Trustee.

Given under my hand and seal of office on this 28th day of December, 1998.

  
Notary Public in and for the  
State of Ohio

SHIRLEY LEE, Notary Public  
In and for the State of Ohio

My Commission Expires: \_\_\_\_\_

My Commission Expires Aug. 29, 2003

## ASSIGNMENT

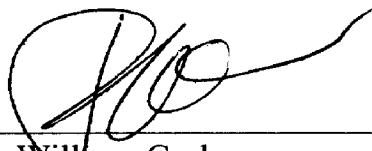
WHEREAS, R. William Graham, a citizen of the United States, residing at 4352 Jonathan Drive, Kettering, Ohio 45440 (hereinafter referred to as the "Assignor") hereby assigns, transfers and conveys to Intelligent Verification Systems (IVS), Inc., a corporation organized under the laws of the State of Texas, whose address is 5018 Newcastle Lane, San Antonio, Texas 78249, ("Assignee") the entire right, title and interest in and to United States Patent No. 5,386,103, issued January 31, 1995 for Identification and Verification System; and any divisions, continuations, reissues and extensions thereof, and all applications for Letters Patent, or similar legal protection which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States, and all extensions, renewals and reissues thereof or legal equivalent thereof.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials of any other country, to issue any Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the Assignee, its successors and assigns;

ASSIGNOR hereby further covenants and agrees that it will communicate to the said Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, 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 the said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent and similar protection for said improvements in all countries;

IN TESTIMONY WHEREOF, Assignor hereunto set its hand and seal this 21th day of September, 1998.

ASSIGNOR

By:   
R. William Graham

Date: 9/29/98

STATE OF OHIO

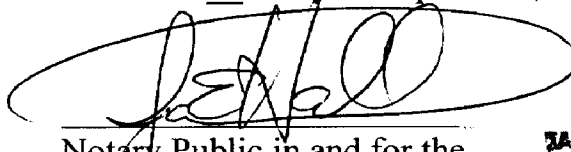
COUNTY OF

Montgomery

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Before me, the undersigned authority, on this day personally appeared R. WILLIAM GRAHAM, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said Trustee.

Given under my hand and seal of office on this 21th day of September, 1998.

  
\_\_\_\_\_  
Notary Public in and for the  
State of Ohio

**JACKIE E. HALL, Notary Public**  
In and for the State of Ohio  
My Commission Expires Jan. 22, 2002

My Commissioner Expires: Jan. 29, 2002



## ASSIGNMENT

WHEREAS, Craig M. Arndt, a citizen of the United States, residing at 4170 Rosewood Avenue, Valkaria, Florida 32950 (hereinafter referred to as the "Assignor") hereby assigns, transfers and conveys to Intelligent Verification Systems (IVS), Inc., a corporation organized under the laws of the State of Texas, whose address is 5018 Newcastle Lane, San Antonio, Texas 78249, ("Assignee") the entire right, title and interest in and to United States Patent No. 5,386,103, issued January 31, 1995 for Identification and Verification System; and any divisions, continuations, reissues and extensions thereof, and all applications for Letters Patent, or similar legal protection which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States, and all extensions, renewals and reissues thereof or legal equivalent thereof.

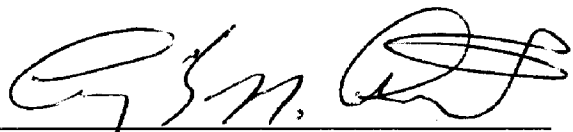
ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials of any other country, to issue any Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the Assignee, its successors and assigns;

ASSIGNOR hereby further covenants and agrees that it will communicate to the said Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, 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 the said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent and similar protection for said improvements in all countries;

IN TESTIMONY WHEREOF, Assignor hereunto set its hand and seal this 15th day of ~~September~~, 1998.

Oct

ASSIGNOR

By:   
Craig M. Arndt FLPLA653113590880

Date: 15 Oct 1998

STATE OF FLORIDA

COUNTY OF Brevard

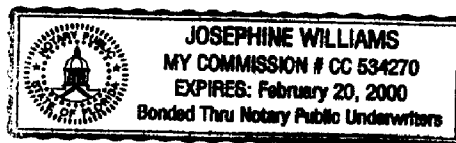
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Before me, the undersigned authority, on this day personally appeared CRAIG M. ARNDT, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said Trustee.

Given under my hand and seal of office on this 15th day of ~~September~~<sub>OCT</sub>, 1998.

Josephine Williams  
Notary Public in and for the  
State of Florida

My Commissioner Expires: 2-20-2000



## ASSIGNMENT

WHEREAS, Tianning Xu, residing at 400 West Bitters Road, Apartment 809, San Antonio, Texas 78216 (hereinafter referred to as the "Assignor") hereby assigns, transfers and conveys to Intelligent Verification Systems (IVS), Inc., a corporation organized under the laws of the State of Texas, whose address is 5018 Newcastle Lane, San Antonio, Texas 78249, ("Assignee") the entire right, title and interest in and to United States Patent No. 5,386,103, issued January 31, 1995 for Identification and Verification System; and any divisions, continuations, reissues and extensions thereof, and all applications for Letters Patent, or similar legal protection which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States, and all extensions, renewals and reissues thereof or legal equivalent thereof.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials of any other country, to issue any Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the Assignee, its successors and assigns;

ASSIGNOR hereby further covenants and agrees that it will communicate to the said Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, 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 the said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent and similar protection for said improvements in all countries;

IN TESTIMONY WHEREOF, Assignor hereunto set its hand and seal this 15th day of September, 1998.

ASSIGNOR

By: 

Tianning Xu

Date: 9/15/98

STATE OF TEXAS  
COUNTY OF BEXAR

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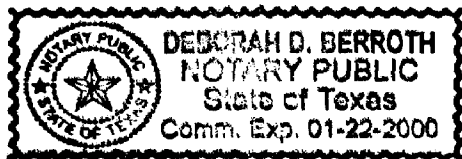
Before me, the undersigned authority, on this day personally appeared TIANNING XU, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said Trustee.

Given under my hand and seal of office on this 15th day of September, 1998.

*Deborah D. Berroth*

Notary Public in and for the  
State of Texas

My Commissioner Expires: 1-22-00



## ASSIGNMENT

WHEREAS, David M. Tumey, a citizen of the United States, residing at 5018 Newcastle Lane, San Antonio, Texas 78249 (hereinafter referred to as the "Assignor") hereby assigns, transfers and conveys to Intelligent Verification Systems (IVS), Inc., a corporation organized under the laws of the State of Texas, whose address is 5018 Newcastle Lane, San Antonio, Texas 78249, ("Assignee") the entire right, title and interest in and to United States Patent No. 5,386,103, issued January 31, 1995 for Identification and Verification System; and any divisions, continuations, reissues and extensions thereof, and all applications for Letters Patent, or similar legal protection which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States, and all extensions, renewals and reissues thereof or legal equivalent thereof.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials of any other country, to issue any Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the Assignee, its successors and assigns;

ASSIGNOR hereby further covenants and agrees that it will communicate to the said Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, 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 the said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent and similar protection for said improvements in all countries;

IN TESTIMONY WHEREOF, Assignor hereunto set its hand and seal this 16th day of September, 1998.

ASSIGNOR

By: 

David M. Tumey


Date: 9/16/98

STATE OF TEXAS  
COUNTY OF BEXAR

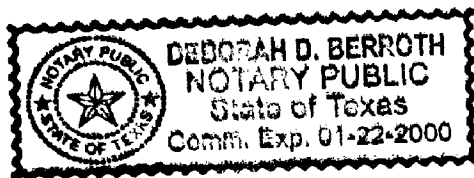
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Before me, the undersigned authority, on this day personally appeared DAVID M. TUMEY, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said Trustee.

Given under my hand and seal of office on this 16th day of September, 1998.

  
Notary Public in and for the  
State of Texas

My Commissioner Expires: 1-22-00



## ASSIGNMENT

WHEREAS, Abdou Deban, a citizen of the United States, residing at 4627 Fox Hill Drive, Sterling Heights, MI 48310 (hereinafter referred to as the "Assignor") hereby assigns, transfers and conveys to Intelligent Verification Systems (IVS), Inc., a corporation organized under the laws of the State of Texas, whose address is 5018 Newcastle Lane, San Antonio, Texas 78249, ("Assignee") the entire right, title and interest in and to United States Patent No. 5,386,103, issued January 31, 1995 for Identification and Verification System; and any divisions, continuations, reissues and extensions thereof, and all applications for Letters Patent, or similar legal protection which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States, and all extensions, renewals and reissues thereof or legal equivalent thereof.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and the appropriate officials of any other country, to issue any Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the Assignee, its successors and assigns;

ASSIGNOR hereby further covenants and agrees that it will communicate to said Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, 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 the said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent and similar protection for said improvements in all countries;

IN TESTIMONY WHEREOF, Assignor hereunto set its hand and seal this 8 th day of December 1998.

ASSIGNOR

By:   
Abdou F. Deban

Date: 12 / 8 / 98

STATE OF MICHIGAN

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COUNTY OF

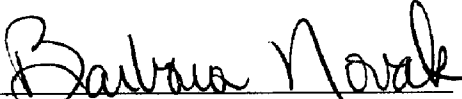
Oakland

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Before me, the undersigned authority, on this day personally appeared ABDOU F. DEBAN, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, in the capacity therein stated and as the act and deed of said Trustee.

Given under my hand and seal of office on this 8th day of December, 1998.

  
Notary Public in and for the  
State of Michigan

My Commission Expires: My Commission Expires July 6, 2000

BARBARA NOVAK  
Notary Public, Oakland County, Michigan