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PATENT

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## Conveying Party(ies)

☐ Mark if additional names of conveying parties attachedName  RSA Data Security, Inc.

Execution Date

Month Day Year

9/10/99

Name 

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## Receiving Party

☐ Mark if additional names of receiving parties attachedName (line 1)  RSA Security Inc.Name (line 2) Address (line 1)  20 Crosby DriveAddress (line 2) Address (line 3)  Bedford

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 MA

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 01730

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PATENT  
REEL: 010288 FRAME: 0805

## Correspondent Name and Address

Area Code and Telephone Number (617) 248-7604

Name Patent Administrator

Address (line 1) Testa, Hurwitz &amp; Thibault, LLP

Address (line 2) High Street Tower

Address (line 3) 125 High Street

Address (line 4) Boston, MA 02110

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10

## 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)

08/845,196

60/107,780

08/954,712

5,400,403

5,633,929

5,854,759

09/094,649

09/177,013

09/134,012

5,724,428

## Patent Cooperation Treaty (PCT)

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

PCT

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## Number of Properties

Enter the total number of properties involved.

# 10

## Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 400.00

Method of Payment: Enclosed ☒Deposit Account ☐

Deposit Account

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Deposit Account Number

# 20-0531

Authorization to charge additional fees:

Yes ☒ No ☐

## 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. Charges to deposit account are authorized, as indicated herein.

John D. Lanza

Name of Person Signing

Signature

October 7, 1999

Date

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## **ASSIGNMENT**

WHEREAS, RSA Data Security, Inc. (hereinafter "ASSIGNOR"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 2955 Campus Drive, Suite 400, San Mateo, California 94403-2507, is the owner of the certain right, title and interest in and to the inventions described in applications for Letters Patent of the United States or Letters Patents of the United States listed in the attached Exhibit A; and

WHEREAS, RSA Security Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the State of Delaware, and having a usual place of business at 20 Crosby Drive, Bedford, Massachusetts 01730, desires to acquire all of Assignee's interest therein, in accordance with agreements duly entered into with ASSIGNOR;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred and by these presents does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR's entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the inventions described in applications and patents listed in Exhibit A, together with ASSIGNOR's entire right, title and interest in and to said applications and such Letters Patent as may issue thereon or claim priority under international convention, including but not limited to continuations, divisionals, reissues, and reexaminations of said application of such Letters Patent; said inventions, applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made; ASSIGNOR hereby conveys all of its rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. ASSIGNOR hereby acknowledges that this assignment, being of its entire right, title and interest in and to said inventions, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE for its own name as assignee of ASSIGNOR's entire right, title and interest therein.

AND, ASSIGNOR hereby further agrees for its executors and administrators to execute upon request any other lawful documents and likewise to perform any other

lawful acts which may be deemed necessary to secure fully the aforesaid inventions to said ASSIGNEE, its successors, assigns, and legal representatives, but at ASSIGNEE's expense and charges, including: the execution of applications for patents in foreign countries; the execution of substitution, reissue, divisional or continuation applications; and preliminary or other statements or the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved; and ASSIGNOR further hereby authorizes ASSIGNEE or its attorneys or agents to insert the correct serial number and filing date into this assignment if none is indicated on that date of its execution of this assignment;

AND, ASSIGNOR does hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

**IN TESTIMONY WHEREOF**, ASSIGNOR's duly authorized representative has hereunto set his hand and affixed his seal the date set forth below.

RSA DATA SECURITY, INC.

By: *A. W. Coviello, Jr.*  
 Name: Arthur W. Coviello, Jr.  
 Title: President

State of Massachusetts )  
 County of Middlesex ) ss

10<sup>th</sup> Subscribed and sworn to before me, by the above-named Arthur W. Coviello, Jr. this  
 day of September, 1999.

*Michelle M. Linahan*  
 Notary Public Michelle M. Linahan  
 My Commission Expires: 7/28/06

844304-1

**EXHIBIT A**

Attorney Docket No.	Serial No./ Patent No.	Filing Date/ Issue Date	Title	Inventor
SDT-003	5,400,403	03/21/95	ABUSE-RESISTANT OBJECT DISTRIBUTION SYSTEM AND METHOD	Fahn et al.
SDT-007	5,633,929	05/27/97	CRYPTOGRAPHIC KEY ESCROW SYSTEM HAVING REDUCED VULNERABILITY TO HARVESTING ATTACKS	Kaliski, Jr.
SDT-034	08/845,196	04/21/97	CLIENT/SERVER PROTOCOL FOR PROVING AUTHENTICITY	Kaliski, Jr.
SDT-035PR	60/107,780	11/10/98	METHODS AND APPRATUS FOR VERIFYING THE CRYPTOGRAPHIC SECURITY OF A SELECTED PRIVATE AND PUBLIC KEY PAIR WITHOUT KNOWINIG THE PRIVATE KEY	Silverman
SDT-404	08/954,712	10/20/97	SECURE USER IDENTIFICATION BASED ON CONSTRAINED POLYNOMIALS	Hoffstein et al.
SDT-414	5,854,759	12/29/98	METHODS AND APPARATUS FOR EFFICIENT FINITE FIELD BASIS CONVERSION	Kaliski, Jr. et al.
SDT-428	5,724,428	03/03/98	BLOCK ENCRYPTION ALGORITHM WITH DATA- DEPENDENT ROTATIONS	Rivest
SDT-429	09/094,649	06/15/98	ENHANCED BLOCK CIPHERS WITH DATA- DEPENDENT ROTATIONS	Rivest et al.
SDT-431	09/177,013	10/22/98	METHOD AND APPARATUS FOR EXTRACTING UNBIASED RANDOM BITS FROM A POTENTIALLY BIASED SOURCE OF RANDOMNESS	Jakobsson et al.
SDT-432	09/134,012	08/14/98	EXECUTABLE DIGITAL CASH FOR ELECTRONIC COMMERCE	Jakobsson et al.