

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>William Duane</td><td>06/22/2007</td></tr><tr><td>Lawrence N. Friedman</td><td>06/22/2007</td></tr><tr><td>Alexander Volanis</td><td>06/25/2007</td></tr></tbody></table>		Name	Execution Date	William Duane	06/22/2007	Lawrence N. Friedman	06/22/2007	Alexander Volanis	06/25/2007
Name	Execution Date								
William Duane	06/22/2007								
Lawrence N. Friedman	06/22/2007								
Alexander Volanis	06/25/2007								
RECEIVING PARTY DATA									
Name:	RSA Security Inc.								
Street Address:	174 Middlesex Turnpike								
City:	Bedford								
State/Country:	MASSACHUSETTS								
Postal Code:	01730								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11607836</td></tr></tbody></table>		Property Type	Number	Application Number:	11607836				
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Application Number:	11607836								
CORRESPONDENCE DATA									
Fax Number: (617)526-5000 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	081004.250US2								
NAME OF SUBMITTER:	Eric L. Prah								
Total Attachments: 3 source=RSA 250 US2 assignment#page1.tif source=RSA 250 US2 assignment#page2.tif									

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PATENT
REEL: 019670 FRAME: 0619

ASSIGNMENT

WHEREAS, we, William Duane, a citizen of the United States of America, residing at 4 Howard Road, Westford, Massachusetts 01886, Lawrence N. Friedman, a citizen of the United States of America, residing at 148 Scituate Street, Arlington, Massachusetts 02476 ; and, Alexander Volanis, a citizen of the United States of America, residing at 255 North Road, Unit 174, Chelmsford, Massachusetts 01824, are inventors of certain new and useful inventions and discoveries which are disclosed in a patent application entitled **Detecting and Preventing Replay in Authentication Systems**, which nonprovisional patent application was filed in the United States Patent and Trademark Office on **December 1, 2006** and assigned **Application No. 11/607,836**; and

WHEREAS, **RSA Security Inc.**, a Delaware corporation, whose address is 174 Middlesex Turnpike, Bedford, Massachusetts 01730, together with its successors and assigns is hereinafter called "ASSIGNEE", is desirous of acquiring the title, rights and benefits, and privileges hereinafter recited.

NOW, THEREFORE, for and in consideration of good and valuable consideration furnished by ASSIGNEE to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to ASSIGNEE the entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, and convention applications based in whole, or in part, upon said inventions or discoveries, or upon said applications, and any and all Letters Patents, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon, or arise from, said inventions, said discoveries, said applications, and said Letters Patent;
2. Authorize ASSIGNEE to file patent applications in any or all countries on any or all of said inventions and discoveries in our name or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under International Conventions or otherwise;
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments throughout the world to issue or transfer all said Letters Patents to ASSIGNEE, as assignee of the entire right, title, and interest therein or otherwise as ASSIGNEE may direct;
4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents, or any license to use the same, or to make, use, or sell anything

embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to ASSIGNEE without encumbrance;

5. Bind our heirs, legal representatives, and assigns, as well as ourselves, to do, upon ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to us or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patents shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this Assignment had not been made; and particularly to execute and deliver to ASSIGNEE all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by ASSIGNEE; and to communicate to ASSIGNEE all facts known to us relating to said inventions and discoveries or the history thereof, and to testify as to the same in any court or proceeding; and to furnish ASSIGNEE any and all documents, photographs, models, samples, and other physical exhibits in my control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal.

6/22/2007 William Duane
 Date William Duane
 State of Massachusetts)
 County of Middlesex)

On this 22nd day of June, 2007, before me, the undersigned notary public, personally appeared **William Duane**, proved to me through satisfactory evidence of identification, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Debra A. Lucas
 Notary Public

My Commission Expires: 4/28/2011

Debra A. Lucas
 Notary Public
 Commonwealth of Massachusetts
 My Commission Expires
 April 28, 2011

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal.

June 22, 2007
Date Lawrence N. Friedman

State of Massachusetts
County of Middlesex

On this 22nd day of June, 2007, before me, the undersigned notary public, personally appeared **Lawrence N. Friedman**, proved to me through satisfactory evidence of identification, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Debra A. Lucas
Notary Public
My Commission Expires: 4/28/2011

Debra A. Lucas
Notary Public
Commonwealth of Massachusetts
My Commission Expires
April 28, 2011

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal.

6/25/2007
Date Alexander Volanis

State of Massachusetts
County of Middlesex

On this 25th day of June, 2007, before me, the undersigned notary public, personally appeared **Alexander Volanis**, proved to me through satisfactory evidence of identification, to be the person whose name is signed on the preceding or attached document, and who swore or affirmed to me that the contents of the document are truthful and accurate to the best of his/her knowledge and belief.

Debra A. Lucas
Notary Public
My Commission Expires: 4/28/2011

Debra A. Lucas
Notary Public
Commonwealth of Massachusetts
My Commission Expires
April 28, 2011