Form PTO-1595   YOR920100432US1

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached document(s) or the new address(es) below:

1. Name of conveying party(ies): Shay ARTZI Ryan BERG John PEYTON Marco PISTOIA Manu SRIDHARAN Takaaki TATEISHI Omer TRIPP Robert WIENER Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No	2. Name and address of receiving party(ies): Name: International Business Machines Corporation Address: New Orchard Road City: Armonk State: NY ZIP Code: 10504 Country: Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of Conveyance: ☒ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other: Execution Date(s): 11/19/10; 11/22/10; 11/22/10; 11/22/10 11/21/10; 11/20/10; 11/20/10; 11/22/10, Respectively	

4. Application number(s) or patent number(s): ☐ This document is being filed together with a new application.	
A. Patent Application No.(s): 12/951,435	B. Patent No.(s):
Additional numbers attached? ☐ Yes ☒ No	

5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and/or patents involved: 1
	7. Total fee (37 CFR 3.41): $40.00
Name: Robert J. Mauri, Esq. Address: Harrington & Smith, Attorneys At Law, LLC 4 Research Drive, Suite 202 City: Shelton	☐ Enclosed ☒ Charge deposit account ☒ Please charge any fee deficiency to deposit account
State: CT ZIP Code: 06484-6212	8. Deposit account number: 50-0510

9. Signature: *If this is a new cover sheet to correct an error in a recorded document, the information provided on this new cover sheet is* *true and correct and any copy submitted is a true copy of the original document.*

Robert J. Mauri Name of Person Signing	Signature	11/22/10 Date

Total number of pages including cover sheet(s), attachments, and documents: 10

Page 1 of 10.

CH $40.00 500510 12951435

PATENT
REEL: 025311 FRAME: 0065

IBM DOCKET NUMBER: YOR920100432US1

ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: **GLOBAL VARIABLE SECURITY ANALYSIS**

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Application No.: _____ (insert series code /serial number here if/when available)

Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned Inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned Inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

[Inventor Signature Page(s) Follows]

Assignment Form.Rev2 (Updated 08/07/2009)

Executed by Inventor 1

Signature: _____   Date: __11/19/10__

Shay Artzi

Assignment Form Rev2 (Updated 08/07/2009)

Executed by Inventor 2

Signature: _____ Date: _11-19-2010_
Ryan Berg

Assignment Form.Rev2 (Updated 08/07/2009)

**PATENT
REEL: 025311 FRAME: 0068**

IBM DOCKET NUMBER: YOR920100432USI

Executed by Inventor 3

Signature: _John Peyton_   Date: _Nov. 22, 2010_

John Peyton

Assignment Form.Rev2 (Updated 08/07/2009)

Executed by Inventor 4

Signature: _Marco Pistoia_   Date: _November 22, 2010_

Marco Pistoia

Assignment Form.Rev2 (Updated 08/07/2009)

Executed by Inventor 5

Signature: _Manu Sridharan_ _____ Date: 11/21/2020

Manu Sridharan

Assignment Form Rev2 (Undated 08/07/2009)

IBM DOCKET NUMBER: YOR920100432US1

Executed by Inventor 6

Signature: _Takaaki Tateishi_   Date: _November 20, 2010_
             Takaaki Tateishi

Page 7 of 9

Assignment Form.Rev2 (Updated 08/07/2009)

Executed by Inventor 7

Signature: _____   Date: **November 20th. 2010**
             Omer Tripp

Assignment Form.Rev2 (Updated 08/07/2009)

Executed by Inventor 8

Signature: _____   Date: ___11/22/2010___
Robert Wiener

Page 9 of 9

Assignment Form Rev2 (Updated 08/07/2009)

PATENT