

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5730994

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD H. BOIVIE	12/14/2016
EDUARD A. CARTIER	12/21/2016
DANIEL J. FRIEDMAN	12/13/2016
KOHJI HOSOKAWA	12/14/2016
CHARANJIT JUTLA	12/14/2016
WANKI KIM	12/14/2016
CHANDRASEKARA KOTHANDARAMAN	12/14/2016
CHUNG LAM	12/14/2016
FRANK R. LIBSCH	12/13/2016
SEIJI MUNETOH	12/15/2016
RAMACHANDRAN MURALIDHAR	12/14/2016
VIJAY NARAYANAN	12/19/2016
DIRK PFEIFFER	12/13/2016
DEVENDRA K. SADANA	12/13/2016
GHAVAM G. SHAHIDI	12/14/2016
ROBERT L. WISNIEFF	12/16/2016

RECEIVING PARTY DATA

Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION
Street Address:	New Orchard Road
City:	Armonk
State/Country:	NEW YORK
Postal Code:	10504

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16578319

CORRESPONDENCE DATA

Fax Number: (203)517-9615

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

PATENT

Phone: 203 433 3157
Email: docket@oeklaw.com
Correspondent Name: OTTERSTEDT, WALLACE & KAMMER, LLP
Address Line 1: P.O. BOX 381
Address Line 4: COS COB, CONNECTICUT 06807-0381

ATTORNEY DOCKET NUMBER: YOR920160848US02

NAME OF SUBMITTER: PAUL J. OTTERSTEDT

SIGNATURE: /PAUL J. OTTERSTEDT/

DATE SIGNED: 09/21/2019

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 16

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IBM DOCKET NUMBER: YOR920160848US1

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: **ENCRYPTION ENGINE WITH AN UNDETECTABLE/TAMPER-PROOF PRIVATE KEY IN LATE NODE CMOS TECHNOLOGY**

As a below named inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

United States application or PCT international application number 15389078
filed on 22-DEC-2016

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries (therein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

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 or has sold, assigns or has assigned, and otherwise transfers or has transferred 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.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: Richard H. Boivie

Signature: Richard H. Boivie Date: 12/14/2016

(2) Legal Name of Inventor: Eduard Cartier

Signature: _____ Date: _____

(3) Legal Name of Inventor: Daniel J. Friedman

Signature: Daniel J. Friedman Date: 12/13/16

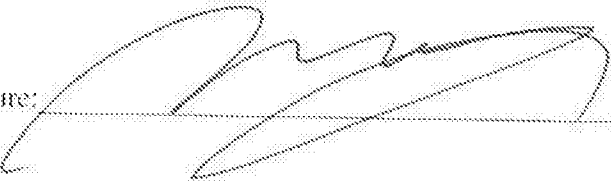
(4) Legal Name of Inventor: Kohji Hosokawa

Signature: _____ Date: _____


(5) Legal Name of Inventor: Charanjit Jutla

Signature: Charanjit Singh Jutla Date: 12/14/16


(6) Legal Name of Inventor: Wanki Kim

Signature:  Date: 12/14/16

(7) Legal Name of Inventor: Chandrasekara Kothandaraman

Signature:  Date: 12/14/16

(8) Legal Name of Inventor: Chung Lam

Signature:  Date: 12/14/16


(9) Legal Name of Inventor: Frank R. Libsch

Signature:  Date: 12/13/16

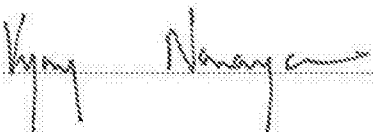
(10) Legal Name of Inventor: Seiji Munetoh

Signature: _____ Date: _____


(11) Legal Name of Inventor: Ramschandran Muralidhar

Signature:  Date: 12/14/2016

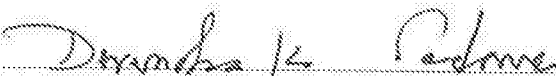
(12) Legal Name of Inventor: Vijay Narayanan

Signature:  Date: 12/19/16


(13) Legal Name of Inventor: Dirk Pfeiffer

Signature:  Date: 12/13/2016

(14) Legal Name of Inventor: Devendra K. Sadana

Signature:  Date: Dec 13, 2016

(15) Legal Name of Inventor: Ghavam G. Shahidi

Signature:  Date: Dec. 14, 2016

(16) Legal Name of Inventor: Robert L. Wisnieff

Signature:  Date: Dec. 16, 2016

COPY

IBM DOCKET NUMBER: YOR920160848US1

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

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15389078

United States application or PCT international application number
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(1) Legal Name of Inventor: Richard H. Boivie

Signature: _____ Date: _____

(2) Legal Name of Inventor: Eduard A. Cartier

Signature: Eduard A. Cartier Date: 21. Dez. 2016

(3) Legal Name of Inventor: Daniel J. Friedman

Signature: _____ Date: _____

(4) Legal Name of Inventor: Kohji Hosokawa

Signature: _____ Date: _____

(5) Legal Name of Inventor: Charanjit Jutla

Signature: _____ Date: _____

COPY

IBM DOCKET NUMBER: YOR920160848US1

(6) Legal Name of Inventor: Wanki Kim

Signature: _____ Date: _____

(7) Legal Name of Inventor: Chandrasekara Kothandaraman

Signature: _____ Date: _____

(8) Legal Name of Inventor: Chung Lam

Signature: _____ Date: _____

(9) Legal Name of Inventor: Frank R. Libsch

Signature: _____ Date: _____

(10) Legal Name of Inventor: Seiji Munetoh

Signature: _____ Date: _____

(11) Legal Name of Inventor: Ramachandran Muralidhar

Signature: _____ Date: _____

(12) Legal Name of Inventor: Vijay Narayanan

Signature: _____ Date: _____

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IBM DOCKET NUMBER: YOR920160848US1

(13) Legal Name of Inventor: Dirk Pfeiffer

Signature: _____ Date: _____

(14) Legal Name of Inventor: Devendra K. Sadana

Signature: _____ Date: _____

(15) Legal Name of Inventor: Ghavam G. Shahidi

Signature: _____ Date: _____

(16) Legal Name of Inventor: Robert L. Wisnieff

Signature: _____ Date: _____

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United States application or PCT international application number _____
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(1) Legal Name of Inventor: Richard H. Boivie

Signature: _____ Date: _____

(2) Legal Name of Inventor: Eduard Cartier

Signature: _____ Date: _____

(3) Legal Name of Inventor: Daniel J. Friedman

Signature: _____ Date: _____

(4) Legal Name of Inventor: Kohji Hosokawa

Signature: Kohji Hosokawa Date: DEC / 14 / 2016

(5) Legal Name of Inventor: Charanjit Jutla

Signature: _____ Date: _____

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Signature: Seiji Munetoh Date: 12/15/2016

(11) Legal Name of Inventor: Ramachandran Muralidhar

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