

11-25-2005

Form PTO-1595 (Rev. 07/05)  
OMB No. 0651-0027 (exp. 6/30/2008)



U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

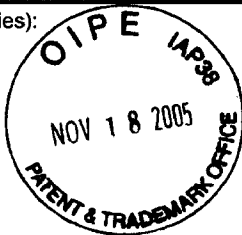
103125559

Attorney Docket No. 1160.44735X00

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

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

Ravinderpal Singh SANDHU  
Brett Jason SCHOPPERT  
Ravi GANESAN  
Mihir BELLARE  
Collin Joseph deSa



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

Name: TriCipher, Inc.

Street Address: 1900 Alameda de las Pulgas,  
Suite 112  
San Mateo, CA 94403

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

## 3. Nature of conveyance/Execution Date(s):

Execution Date(s) Feb. 14, 14, 2005; March 2, 19, 2005; April 4, 2005.

- ☐ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☒ Other CORRECTED ASSIGNMENT - Resubmitting corrected Cover Sheet with correct spelling of 5<sup>th</sup> Inventor's name and listing the Execution dates of all the inventors.

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

## 4. Application or patent numbers(s):



This document is being filed together with a new application.

## A. Patent Application No.(s)

11/056,120

## B. Patent Registration No.(s)

Additional number(s) attached ☐ Yes ☒ No

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

Name: ANTONELLI, TERRY, STOUT &amp; KRAUS, LLP

Internal Address:

1300 NORTH 17<sup>TH</sup> STREET - SUITE 1800

City: ARLINGTON State: VA Zip 22209

Phone Number: 703-312-6000

Fax Number: 703-312-6666

Email Address: email@antonelli.com

6. Total number of applications and patents involved ☒ 1

## 7. Total fee (37 CFR 3.41)..... \$40.00

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

## 8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date 06/06

## b. Deposit account number: 01-2135

11/21/2005 JADD01 00000098 11056120  
Authorized User Name  
01 FC:0021

40.00 OP

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Alfred A. Stadnicki, Reg. #30,226

Name of Person Signing

Signature

Resubmitting 11/18/2005

Date

Total number of pages including cover sheet, attachments, and document:

PATENT  
REEL: 017253 FRAME: 0245

5235

05-27-2005

AA# 1160.44735x00

Form PTO-1595  
(Rev. 10/02)  
OMB No. 0651-0027 (exp. 6/30/2005)



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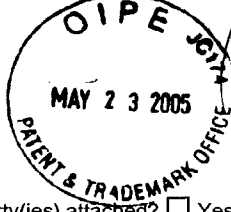
U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

Docket No. 3001-33/1160.44735X00

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Ravinderpal Singh SANDHU  
Brett Jason SCHOPPERT  
Ravi GANESAN  
Mihir BELLARE  
Colin Joseph DeSa

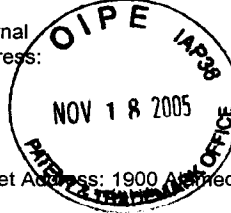


Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: TriCipher, Inc.

Internal  
Address:



CORRECT  
ASSIGNMENT  
BY 10/28/05

Street Address: 1900 Alameda de las Pulgas, Suite 112

City: San Mateo State: CA Zip: 94403

3. Nature of conveyance:

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

Execution Date: **March 28/19, April 4, 2005.**

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

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)

**11/056,120**  
**February 14, 2005**

B. Patent Registration No.(s)

Additional number(s) attached ☐ Yes ☒ No

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

Name: **ANTONELLI, TERRY, STOUT & KRAUS, LLP**

Internal Address:

**1300 NORTH 17<sup>TH</sup> STREET - SUITE 1800**

City: **ARLINGTON** State: **VA** Zip **22209**

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:

**01-2135**

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

DO NOT USE THIS SPACE

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.*

**ALFRED A. STADNICKI, Reg#30,226**

Name of Person Signing

Signature

**05/23/2005**

Date

Total number of pages including cover sheet, attachments, and document: **5**

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patent & Trademarks, Box Assignments  
Washington, D.C. 20231

05/25/2005 HALI11 00000089 11056120

02 FC:8021

(40.00 DP)

PATENT  
REEL: 017253 FRAME: 0246

### **ASSIGNMENT**

**WHEREAS**, I/we (as applicable), Ravinderpal Singh SANDHU, Brett Jason SCHOPPERT, Ravi GANESAN, Mihir BELLARE and Collin Joseph deSa have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled "MULTIPLE FACTOR PRIVATE PORTION OF AN ASYMMETRIC KEY", for which an application for United States Letters Patent [ ] is filed herewith or [X] was filed on February 14, 2005 as Application Serial No. 11056120;

**AND WHEREAS**, I/we hereby acknowledge my/our obligation to transfer the entire right, title and interest to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefore to TriCipher, Inc. (hereinafter referred to as **ASSIGNEE**), a corporation organized and existing under the laws of the State/Commonwealth of California and having an address of 1900 Alameda de las Pulgas, Suite 112, San Mateo, CA 94403;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we do hereby sell, assign, transfer and set over unto said **ASSIGNEE**, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention including rights to priority under the International Convention of Paris (1883), as amended;

**UPON SAID CONSIDERATIONS**, I/we hereby acknowledge and agree that I/we have not and will not execute any writing or do any act whatsoever conflicting with these presents, and that we will, at any time upon request, without further or additional consideration but at the expense of said **ASSIGNEE**, execute such additional assignments and other writings, for example statements and other affidavits, and do such additional acts, for example giving testimony, as said **ASSIGNEE** may deem necessary or desirable to perfect the **ASSIGNEE's** enjoyment of rights granted in said invention, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in any proceedings or transactions involving such applications or patents, including those relating to the enforcement of any rights or chose in action accruing as a result of said applications or patents, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the successors, assigns and legal representatives of me/us and **ASSIGNEE**;

**AND** I/we request the Commissioner of Patents and Trademarks to issue

any Letters Patent of the United States which may be issued for said invention to said **ASSIGNEE**, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date: 2/14/05 Name: Ravinderpal S Sandhu  
(signed)

Ravinderpal Singh SANDHU,

State/Commonwealth of: Virginia  
County of: Arlington

Then personally appeared the above- named Ravinderpal Singh Sandhu  
of TriCipher, Inc,  
this 14<sup>th</sup> day of February, 2005, to me personally known and  
known to me to be the person described in and who executed the foregoing  
assignment and acknowledged the same to be his or her own free act and deed,  
before me.

Glenna L. Hesi  
Notary Public  
My commission expires 2/28/2009

Date: \_\_\_\_\_ Name: \_\_\_\_\_  
(signed)

Brett Jason SCHOPPERT

State/Commonwealth of: \_\_\_\_\_  
County of: \_\_\_\_\_

Then personally appeared the above-named \_\_\_\_\_  
of \_\_\_\_\_,  
this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, to me personally known and  
known to me to be the person described in and who executed the foregoing  
assignment and acknowledged the same to be his or her own free act and deed,  
before me.

\_\_\_\_\_  
Notary Public

any Letters Patent of the United States which may be issued for said invention to said **ASSIGNEE**, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date: \_\_\_\_\_ Name: \_\_\_\_\_  
(signed)

Ravinderpal Singh SANDHU,

State/Commonwealth of: \_\_\_\_\_  
County of: \_\_\_\_\_

Then personally appeared the above- named \_\_\_\_\_  
of \_\_\_\_\_,  
this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, to me personally known and  
known to me to be the person described in and who executed the foregoing  
assignment and acknowledged the same to be his or her own free act and deed,  
before me.

\_\_\_\_\_  
Notary Public  
My commission expires \_\_\_\_\_

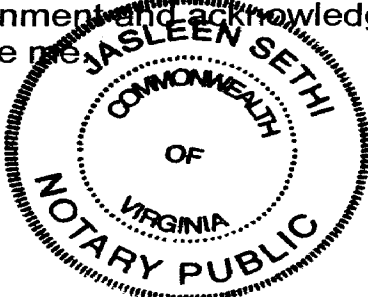
Date: 2 MAR 2005

Name:   
(signed)

Brett Jason SCHOPPERT

State/Commonwealth of: N. A.  
County of: FAIRFAX

Then personally appeared the above-named Brett Jason Schoppert  
of \_\_\_\_\_,  
this 02 day of MARCH, 2005, to me personally known and  
known to me to be the person described in and who executed the foregoing  
assignment and acknowledged the same to be his or her own free act and deed,  
before me.



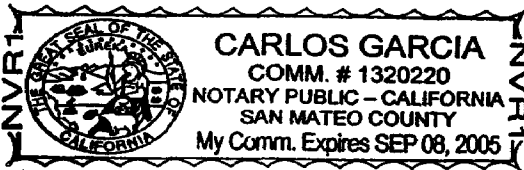
  
Notary Public

Date: 3/19/09 My commission expires \_\_\_\_\_  
Name: *Ravi Ganesan*  
(signed)

Ravi GANESAN

State/Commonwealth of: California  
County of: San Mateo

Then personally appeared the above-named Ravi Ganesan  
of TASCAPAL,  
this 19 day of MARCH, 2005, to me personally known and  
known to me to be the person described in and who executed the foregoing  
assignment and acknowledged the same to be his or her own free act and deed,  
before me.



*Carlos Garcia*  
Notary Public  
My commission expires Sept. 8, 2005

Date: \_\_\_\_\_ Name: \_\_\_\_\_  
(signed)

Mihir BELLARE

State/Commonwealth of: \_\_\_\_\_  
County of: \_\_\_\_\_

Then personally appeared the above-named \_\_\_\_\_  
of \_\_\_\_\_,  
this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, to me personally known and  
known to me to be the person described in and who executed the foregoing  
assignment and acknowledged the same to be his or her own free act and deed,  
before me.

\_\_\_\_\_  
Notary Public  
My commission expires \_\_\_\_\_

Date: \_\_\_\_\_ Name: \_\_\_\_\_  
(signed)

Ravi GANESAN

State/Commonwealth of: \_\_\_\_\_  
County of: \_\_\_\_\_

Then personally appeared the above-named \_\_\_\_\_  
of \_\_\_\_\_, this \_\_\_\_\_ day  
of \_\_\_\_\_, \_\_\_\_\_, to me personally known and known to me to be the person  
described in and who executed the foregoing assignment and acknowledged the same to be his or  
her own free act and deed, before me.

\_\_\_\_\_  
Notary Public  
My commission expires \_\_\_\_\_

Date: 4/4/05 Name: Mihir Bellare  
(signed)

Mihir BELLARE

State/Commonwealth of: California  
County of: San Diego

Then personally appeared the above-named Mihir Bellare  
of San Diego, this 4 day  
of April, 2005 to me personally known and known to me to be the person  
described in and who executed the foregoing assignment and acknowledged the same to be his or  
her own free act and deed, before me.



Julia Maureen Latimer  
Notary Public  
My commission expires November 23, 2006

Date: 2/14/05


Name:   
(signed)

Collin Joseph deSa

State/Commonwealth of: Virginia

County of: Arlington

Then personally appeared the above-named Collin Joseph deSa  
of Tri Cipher, Inc.  
this 14<sup>th</sup> day of February, 2005, to me personally known and  
known to me to be the person described in and who executed the foregoing  
assignment and acknowledged the same to be his or her own free act and deed,  
before me.

  
Notary Public  
My commission expires Feb. 28, 2009