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To the Director of the U.S. Patent &

103542884

documents or the new address(es) below.

1. Name of conveying party(ies)

LAHOUARI GHOUTI
MOHAMMAD K. IBRAHIM
ATEF JAWAD AL-NAJJAR

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

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

Execution Date(s) DECEMBER 8, 2008

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

Internal Address: RESEARCH & INNOVATION SUPPORT OFFICE

Street Address: P.O. BOX 5040

City: DHAHRAN

State: _____

Country: SAUDI ARABIA Zip: 31261

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

4. Application or patent number(s):

☒ This document is being filed together with a new application.
A. Patent Application No.(s) _____ B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: LITMAN LAW OFFICES, LTD.

Internal Address: DOCKET NO. 18692.51

Street Address: P.O. BOX 15035, CRYSTAL CITY STATION

City: ARLINGTON

State: VA Zip: 22215

Phone Number: (703) 486-1000

Fax Number: (703) 486-7000

Email Address: _____

6. Total number of applications and patents involved: ONE

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

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

8. Payment Information

Deposit Account Number _____

Authorized User Name: 01/08/2005 HJMM1 00000023 12318495

9. Signature:

Robert B. Lyons
Signature

DECEMBER 29, 2008
Date

ROBERT B. LYONS REG. NO. 40,708

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Dkt. 18692.51

ASSIGNMENT

WHEREAS, LAHOUARI GHOUTI, a citizen/citizens of Algeria, residing at/whose address is P.O. BOX 1128, KFUPM, DHAHRAN 31261, SAUDI ARABIA, MOHAMMAD K. IBRAHIM, a citizen/citizens of the United Kingdom, residing at/whose address is 297 LONDON ROAD, LEICESTER, LE2 3ND, UNITED KINGDOM, and ATEF JAWAD AL-NAJJAR, a citizen/citizens of Saudi Arabia, residing at/whose address is P.O. BOX 1727, KFUPM, DHAHRAN 31261, SAUDI ARABIA, hereinafter called the "Assignor(s)", who presently own(s) the invention entitled CRYPTOGRAPHIC HASH FUNCTIONS USING ELLIPTIC POLYNOMIAL CRYPTOGRAPHY, for a full description of which reference is made to a nonprovisional application for Letters Patent of the United States Serial Number _____ (to be assigned) filed on _____, 20____, (filed herewith under Attorney Docket No. 18692.50), and

WHEREAS, KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS, a university organized and existing under the laws of the Nation of SAUDI ARABIA, having its principal place of business/business address at DHAHRAN, 31261, SAUDI ARABIA, hereinafter called the "Assignee" is desirous of acquiring the entire right, title and interest in and to said invention, the above noted application, and to any Letters Patent which may be obtained for said invention, and as hereinafter more fully set forth,

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that for and in the consideration of the sum of One Dollar (\$1.00) and other valuable and legally sufficient consideration, the receipt of which by said Assignor(s) from said Assignee is hereby acknowledged, the said Assignor(s) has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, the entire right, title and interest in the United States to the invention and above noted application, and any Letters Patent of the United States that may issue for said invention, together with the entire right, title and interest in and to said invention and applications for Letters Patent and Letters Patent therefor in all countries foreign to the United States; to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue.

AND the said Assignor(s) does/do hereby covenant and agree, for himself/themselves and his/their legal representatives, that he/they will assist said Assignee in making and prosecuting any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinbefore set forth, investing in the said Assignee like exclusive title in and to all such other applications and Letters Patent, together with all claims for damages and profits by reason of past infringement of all or any of the patents issuing from the Patent Application, with the right to sue for and collect same for Assignee's own use (and for the use of Assignee's successors and assigns); and in the prosecution of any interference which may arise involving said invention, or any application for Letters Patent herein contemplated; and that he/they will execute and deliver to the said Assignee any and all additional papers which may be

requested by the said Assignee to fully carry out the terms of this agreement.

AND the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this agreement.

IN TESTIMONY WHEREOF, said Assignor, LAHOUARI GHOUTI, has hereunto set his hand and affixed his seal this 8 day of December, 2008.

LAHOUARI GHOUTI [SEAL]
LAHOUARI GHOUTI

STATE OF _____)
) ss
COUNTY OF _____)

Subscribed and sworn to before me this _____ day of _____, 20__.

(SEAL)

Notary Public

My Commission expires:

IN TESTIMONY WHEREOF, said Assignor, MOHAMMAD K. IBRAHIM, has hereunto set his hand and affixed his seal this 8 day of December, 2008

MOHAMMAD K. IBRAHIM [SEAL]
MOHAMMAD K. IBRAHIM

STATE OF _____)
) ss
COUNTY OF _____)

Subscribed and sworn to before me this _____ day of _____, 20__.

(SEAL)

Notary Public

My Commission expires:

IN TESTIMONY WHEREOF, said Assignor, ATEF JAWAD AL-NAJJAR, has hereunto set his hand and affixed his seal this 22 day of December, 2008

 [SEAL]
ATEF JAWAD AL-NAJJAR

STATE OF _____)

) ss

COUNTY OF _____)

Subscribed and sworn to before me this _____ day of _____, 20__.

(SEAL)

Notary Public

My Commission expires: