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RECORDATION FC

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1. Name of conveying party(ies): Dan Boneh

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

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

Name: The Board of Trustees of the Leland Stanford Junior University

Street address: 1705 El Camino Real

City: Palo Alto

State: CA

Zip: 94306-1106

Country: US

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

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

☒ Assignment

☐ Security Agreement

☐ Merger

☐ Change of Name

☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424m Confirmatory License

☐ Other

Execution Date(s): 7/19/2006

4. Application or patent number(s):

A. Patent Application No.(s)

A. Patent No.(s)

11/431410

☐ This document is being filed together with a new application.

Additional numbers attached? ☐ Yes ☒ No

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

Name: LUMEN Intellectual Property Services, Inc.

Street address: 2345 Yale Street, Second Floor

City: Palo Alto

State: CA

Zip: 94306

Country: USA

Phone No.: 650-424-0100

Fax No.: 650-424-0141

Email: admin@lumen.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41): \$40

☒ Authorized to be charged by credit card

8. Payment information:

a. Credit Card Last 4 Numbers: 9737

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9. Signature:

Signature

Thomas J. McFarlane

Printed Name

Thomas J. McFarlane

Date

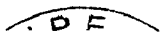
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08-07-2006 11:41:40

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ASSIGNMENT

WHEREAS, I/WE:

Dan Boneh, an US citizen, and residing at 3024 Ross Road, Palo Alto, CA 94303

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1) For valuable consideration, the receipt and adequacy of which receipt is
acknowledged, I/we, the above-named Assignor(s), each sell and assign to **The Board of
Trustees of the Leland Stanford Junior University**, hereinafter "Assignee", the entire
right title and interest in and to the invention or inventions as described in US Patent
10 Application, **11/431410**, entitled **Systems and Methods for Identity-Based Encryption
and Related Cryptographic Techniques**, filed **5/9/2006**, and naming Assignor(s) as
inventor(s), and to any and all applications for patent and patents in any and all countries
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extensions thereof, and including all domestic and foreign rights of priority resulting
15 from the filing of said US patent application.

2) I/we hereby covenant that no assignment, sale, agreement or encumbrance has been or
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3) I/we hereby agree that Assignee may apply for foreign patents relating to said
invention(s) and irrevocably authorize Assignee and grant Assignee the sole right to do
so.

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4) I/we agree that on request and without further consideration, but at the expense of
Assignee, I/we will sign all lawful papers, make all rightful oaths, and testify in any legal
proceedings relating to said invention(s), and generally aid Assignee, or its successors,

assigns, or nominees, to obtain and enforce proper patent protection for said invention(s)
in any and all countries.

5) I/we authorize and request any official whose duty it is to issue patents to issue any
5 patent on said invention(s) or resulting therefrom to Assignee, or its successors, assigns,
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Dan Boneh:

10 Signature: Dan Boneh Date: 7/19/06