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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

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|------------------------------|---|
| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the SCHEDULE A, LINE 1, PATENT NUMBER SHOULD BE 7,725,723 previously recorded on Reel 028727 Frame 0348. Assignor(s) hereby confirms the ASSIGNMENT. |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| PETER LANDROCK | 12/12/2016 |
| JONATHAN ROSHAN TULIANI | 12/10/2016 |

RECEIVING PARTY DATA

| | |
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| City: | CAMBRIDGESHIRE |
| State/Country: | UNITED KINGDOM |
| Postal Code: | CB4OWG |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------|---------|
| Patent Number: | 7725723 |

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| ATTORNEY DOCKET NUMBER: | 105005-0083 |
| NAME OF SUBMITTER: | ARNE HANS |
| SIGNATURE: | /Arne Hans/ |
| DATE SIGNED: | 12/15/2016 |

Total Attachments: 6

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PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | |
|---|-----------------------------|---------------|----------------|---------------------|------------|-------------------------|------------|----------------|---------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Peter Landrock</td> <td>07/23/2012</td> </tr> <tr> <td>Jonathan Roshan Tuliani</td> <td>08/04/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Peter Landrock | 07/23/2012 | Jonathan Roshan Tuliani | 08/04/2012 | | |
| Name | Execution Date | | | | | | | | |
| Peter Landrock | 07/23/2012 | | | | | | | | |
| Jonathan Roshan Tuliani | 08/04/2012 | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | |
| Name: | Cryptomathic Ltd. | | | | | | | | |
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| City: | Cambridge, Cambridgeshire | | | | | | | | |
| State/Country: | UNITED KINGDOM | | | | | | | | |
| Postal Code: | CB4 OWG | | | | | | | | |
| PROPERTY NUMBERS Total: 3 | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13297321</td> </tr> <tr> <td>Patent Number:</td> <td>7735723</td> </tr> <tr> <td>Patent Number:</td> <td>8078879</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13297321 | Patent Number: | 7735723 | Patent Number: | 8078879 |
| Property Type | Number | | | | | | | | |
| Application Number: | 13297321 | | | | | | | | |
| Patent Number: | 7735723 | | | | | | | | |
| Patent Number: | 8078879 | | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | 105005-83C2 | | | | | | | | |
| NAME OF SUBMITTER: | John F. McKenna | | | | | | | | |

CH \$120.00 13297321

PATENTS
105005-0083C2
PC785919USB

PATENT ASSIGNMENT

WHEREAS We, Peter Landrock, whose residence address is 52 Storey's Way, Cambridge, Cambridgeshire CB30DX, United Kingdom and Jonathan Roshan Tulliani, whose residence address is 53 Kings Road, Wilmslow, Cheshire, SK9 5PW, United Kingdom (hereinafter referred to as "The Inventors"), have made certain inventions or discoveries (or both) set forth in the U.S. Patents and patent application identified in the attached Appendix A (hereinafter referred to as "Patent Assets");

WHEREAS Peter Landrock by virtue of an assignment recorded on May 4, 2010 at Reel 024331, Frame 0987 transferred certain rights under said Patent Assets to Cryptomathic A/S, Jaegerdardsgade 118, DK-800, Aarhus C, Denmark;

WHEREAS Cryptomathic Ltd., whose address is 327 Cambridge Science Park, Cambridge, Cambridgeshire, CB4 0WG, United Kingdom, (hereinafter called "Assignee,") is desirous of acquiring from The Inventors and Cryptomathic A/S all rights, title, and interest in and to said Patent Assets;

NOW THEREFORE, for good and valuable consideration furnished by Assignee, receipt and sufficiency of which is hereby acknowledged, The Inventors and Cryptomathic A/S hereby, without reservation:

1. Assign, transfer and convey to Assignee any and all of their rights, title, and interest in and to said Patent Assets and the inventions disclosed therein, including all divisional, renewal and continuation applications based in whole or in part upon said Patent Assets;
2. Authorize and request the Commissioner of Patents and Trademarks to issue or transfer all said Patent Assets to Assignee or otherwise as Assignee may direct;
3. Bind their heirs, legal representatives and assigns, as well as themselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to them, all acts reasonably serving to assure that the Patent Assets shall be held and enjoyed by Assignee; and particularly to execute and deliver to Assignee all lawful application documents including assignments, disclaimers, and lawful affidavits in form and substance as may be reasonably requested by Assignee.

PATENTS
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PC785919USB

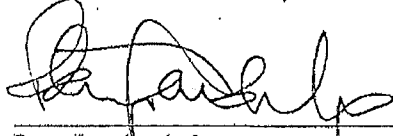
In testimony of which The Inventors and Cryptomathic A/S have executed this Patent Assignment as an instrument under seal on the dates indicated next to their names.

Date

07/23/12

Date

Jonathan Roshan Tuliani, Inventor



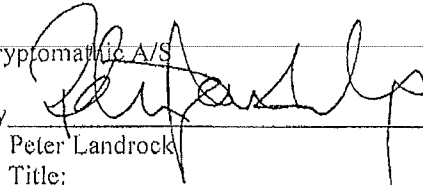
Peter Landrock, Inventor

07/23/12

Date

Cryptomathic A/S

By



Peter Landrock

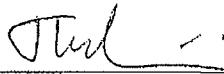
Title:

EXECUTIVE CHAIRMAN

PATENTS
105005-0083C2
PC785919USB

In testimony of which The Inventors and Cryptomathic A/S have executed this
Patent Assignment as an instrument under seal on the dates indicated next to their names.

4 August 2012
Date


Jonathan Roshan Tuliani, Inventor

Date

Peter Landrock, Inventor

Cryptomathic A/S

Date

By _____
Peter Landrock
Title:

PATENTS
105005-0083C2
PC785919USB

APPENDIX A

7,725,723
U.S. Patent No. ~~7,735,723~~, dated May 25, 2010

U.S. Patent No. 8,078,879, dated December 13, 2011

U.S. application Serial No. 13/297,321, filed November 16, 2011

PATENTS
105005-0083C2
PC785919USB

APPENDIX A

7,725,723 *dt. 10-DEC-2016*
U.S. Patent No. ~~7,735,723~~, dated May 25, 2010

R, 12-DEC-2016

U.S. Patent No. 8,078,879, dated December 13, 2011

U.S. application Serial No. 13/297,321, filed November 16, 2011