

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GHASSAN KARAME	01/10/2017
RECEIVING PARTY DATA	
Name:	NEC EUROPE LTD.
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State/Country:	GERMANY
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16423209
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NAME OF SUBMITTER:	ERIK R. SWANSON
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DATE SIGNED:	06/12/2019
Total Attachments: 2	
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source=815602_Executed_Assignment#page2.tif	

ASSIGNMENT

I, Ghassan Karame, residing at Heinrich-Fuchs-Strasse 59; 69126 Heidelberg;
GERMANY;

and each of us, if more than one person is identified above, has invented and owns a certain
invention entitled:

**METHOD AND SYSTEM FOR AT LEAST PARTIALLY UPDATING DATA
ENCRYPTED WITH AN ALL-OR-NOTHING ENCRYPTION SCHEME**

for which invention International Application No. PCT/EP2014/070986 was filed on
September 30, 2014, designating the U.S. and

WHEREAS,

NEC Europe Ltd.

having an address at Kurfuersten-Anlage 36; 69115 Heidelberg; Germany,

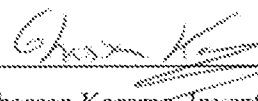
hereinafter referred to as Assignee, is desirous of acquiring the entire domestic and foreign
right, title, and interest in and under the invention described in the above patent application.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency
of which are hereby acknowledged, I/we assign and transfer to the Assignee and the
Assignee's legal representatives, successors and assigns my/our full and exclusive rights in
and to the invention in the U.S. and every foreign country and my/our entire right, title, and
interest in and to the patent application and other such applications (e.g., provisional
applications, non-provisional applications, continuations, continuations-in-part, divisionals,
reissues, reexaminations, National phase applications, including petty patent applications, and
utility model applications) that may be filed in the United States and every foreign country on
the invention, and the patents, extensions, or derivations thereof, both foreign and domestic,
that may issue thereon, and I/we do hereby authorize and request the Commissioner of
Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of
this assignment document.

UPON SAID CONSIDERATION, I/we convey to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the U.S. application (or any other application on the invention) to gain priority with respect to other applications.

I/WE DO HEREBY COVENANT and agree with the Assignee that I/we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that I/we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

Date 10/01/2017


Ghassan Karame, Inventor