

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
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YANG LIU	06/28/2013
DA JIANG ZHANG	06/28/2013
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14898881
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NAME OF SUBMITTER:	THAO PHAM
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DATE SIGNED:	12/16/2015
Total Attachments: 2	
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source=82256_Assignment#page2.tif	

ASSIGNMENT

WHEREAS, I/We,

- | | | | |
|-----|-----------------------|----|-----------------------|
| (1) | LIU, Yang | of | Beijing, China |
| (2) | ZHANG, Dajiang | of | Beijing, China |

have invented certain improvements in

**METHODS AND APPARATUS FOR GENERATING KEYS IN DEVICE-TO-DEVICE
COMMUNICATIONS**

For which I/we have filed an application for Letters Patent of the United States of America, submitted for filing on December 16, 2015 and assigned application no. 14/898881, which is a 371 National Stage of **PCT/CN2013/ 078054**, filed **June 26, 2013**; and

WHEREAS, I/We authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, NOKIA CORPORATION, a corporation organized under the laws of Finland, having its principal office in Espoo, Finland (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and under the said invention and the said application, and in and to any and all Letters Patent which shall be granted therefore in the United States of America and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we have sold and do hereby sell, assign, transfer and convey unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and to said invention and application, and in all divisionals, reissues, substitutions, continuations, continuation-in-part and, in any and all Letters Patents of the United States of America and all foreign countries or reissues, reexaminations, or extensions thereof which may be granted therefore or thereon, for the full end of the term for which said Letters Patent may be granted, together with the right to claim the priority of said application in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by me/us if this assignment and sale had not been made.

I/WE ALSO HEREBY authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom to the said ASSIGNEE of my/our entire right, title and interest.

I/WE FURTHER HEREBY sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including, without limitation, the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries. I/WE further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection

therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I/WE HEREBY covenant that I/WE have not and I/WE will not execute any agreement in conflict herewith.

I/WE HEREBY further covenant, and agree to bind my/our heirs, legal representatives, and assigns, promptly to communicate to said ASSIGNEE or its representatives any facts known to me/us relating to said invention, to testify in any interference or legal proceedings involving said invention, to execute any additional papers which may be requested to confirm the right of the assignee, its representatives, successors, or assigns to secure patent or similar protection for the said invention in all countries and to vest in the assignee complete title to the said invention and Letters Patent, without further compensation, but at the expense of said ASSIGNEE, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date indicated below.

Liu Yang
LIU, Yang

2013.6.28
Date

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date indicated below.

Zhang Dajiang
ZHANG, Dajiang

2013.6.28
Date