

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Xin QI	12/05/2008
Jianfend KANG	12/05/2008
Chao WEI	12/05/2008
RECEIVING PARTY DATA	
Name:	Nokia Corporation
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City:	Espoo
State/Country:	FINLAND
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12263497
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ATTORNEY DOCKET NUMBER:	01057-1408
NAME OF SUBMITTER:	Phouphanomketh Ditthavong

OP \$40.00 12263497

Total Attachments: 4
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Attorney Docket No.: 01057_1408
Client Docket No.: NC62268US

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned, Xin QL Jianfeng KANG, and Chan WEI, hereby sell, assign, and transfer to Nokia Corporation, a corporation of Espoo, Finland, having a principal place of business at Keilalahdentie 4, FIN-02150 Espoo, Finland ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent, entitled:

METHOD AND APPARATUS FOR PROVIDING AN EFFICIENT PILOT PATTERN

- which has been executed by the undersigned concurrently herewith,
- which was filed on November 2, 2008 and assigned Serial No. 12/263,497

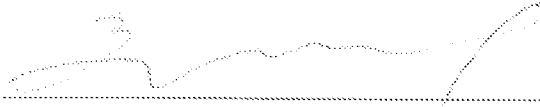
and in to said application and all divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all assignments and powers of attorney; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

12-5-2008
Date


Name: Xin Qi

Each Inventor: Please Sign and Date Below:

Dec 15 2018
Date

Jianfeng Kang
Name: Jianfeng KANG

Each Inventor: Please Sign and Date Below:

Dec 15th, 2008

Date

Wei Chao

Name: Chao WEI