

02/12/2014



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U.S. DEPARTMENT OF COMMERCE

PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached document.

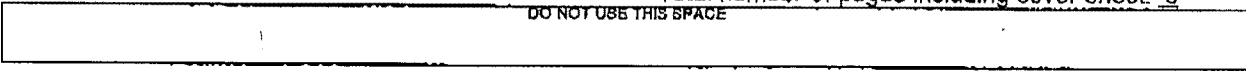
7-18-13  
MED

- 1. Name of conveying parties:  
1.) Xlao'an FAN  
2.) Yongxia LV  
3.) Xiaofeng CHEN
- 2. Name and Address of receiving party:  
**HUAWEI TECHNOLOGIES CO., LTD.**  
Huawei Administration Building,  
Bantian, Longgang District,  
Shenzhen, 518129, Guangdong,  
P.R., China
- 3. Nature of conveyance:  
 Assignment                       Merger  
 Security Agreement               Change of Name  
 Other:  
Execution Date(s): 1., 2.) July 17, 2013; 3.) June 9, 2013
- 4. Application number(s) or patent number(s):  
 This document is being filed together with a new application.  
OR  
 This document is being filed after filing of the application:  
(a) Patent Application No(s). 13/944,047, filed July 17, 2013; or  
(b) Patent No(s), issued
- 5. Name and address of party to whom correspondence concerning document should be mailed:  
STAAS & HALSEY LLP                      Our Docket: 2382.1052  
Attention: Paul I. Kravetz  
1201 New York Ave., N.W., 7th Floor  
Washington, D.C. 20005
- 6. Total number of applications and patents involved: 1
- 7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Patent or Application in Assignment)  
 Enclosed  
 Authorized to be charged to credit card.  
 Authorized to be charged to deposit account.
- 8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)

Paul I. Kravetz, Reg. No. 35,230  
Name of Person Signing

Signature                      02/12/2014 Date                      100000011 193935 13944047

Total number of pages including cover sheet: 5



**PATENT**Attorney Docket No. \_\_\_\_\_  
Client Reference No. 83099936US08**ASSIGNMENT****WHEREAS, WE,**

Xiao'an FAN  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA; and

Yongxia LV  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA; and

Xiaofeng CHEN  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA;

have invented and own a certain invention entitled:  
**METHOD AND APPARATUS FOR ENCODING AND PROCESSING  
ACKNOWLEDGEMENT INFORMATION**  
for which invention we have executed an application (provisional or non-provisional) for a U.S. patent, which was filed on \_\_\_\_\_, under U.S. Application No. \_\_\_\_\_ and

**WHEREAS, HUAWEI TECHNOLOGIES CO., LTD.**, of Huawei Administration Building, Bantian, Longgang District, Shenzhen, 518129, Guangdong, P.R. China, 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 patent application.

**NOW, THEREFORE**, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights in and to the invention in the U.S. and every foreign country and the 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 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.

**WE HEREBY AUTHORIZE** the Assignee to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

**WE DO HEREBY COVENANT** and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that 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

In re Appln. of Feng et al.  
Attorney Docket No. \_\_\_\_\_

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 chooses 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.

IN WITNESS WHEREOF, we have hereunder set our hands on the dates shown below.

Date July 17, 2013 Xiaoan FAN  
Xiao'an FAN

Date July 17, 2013 Yuan XZA  
Witness

Date July 17, 2013 Bo LI  
Witness

Date July 17, 2013 Yongxia LV  
Yongxia LV

Date July 17, 2013 Yuan XZA  
Witness

Date July 17, 2013 Lie Hai LIU  
Witness

Date \_\_\_\_\_ Xiaofeng CHEN

Date \_\_\_\_\_  
Witness

Date \_\_\_\_\_  
Witness

**PATENT**Attorney Docket No. \_\_\_\_\_  
Client Reference No. 83099936US08**ASSIGNMENT****WHEREAS, WE,**

Xiao'an FAN  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA; and

Yongxia LV  
Huawei Administration Building  
Bantian, Longgang District  
Shenzhen, 518129, Guangdong  
P.R. CHINA; and

Xiaofeng CHEN  
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**METHOD AND APPARATUS FOR ENCODING AND PROCESSING  
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**WHEREAS, HUAWEI TECHNOLOGIES CO., LTD.,** of Huawei Administration  
Building, Bantian, Longgang District, Shenzhen, 518129, Guangdong, P.R. China, 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 patent application.

**NOW, THEREFORE,** for good and valuable considerations, the receipt and sufficiency of  
which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's  
legal representatives, successors and assigns the full and exclusive rights in and to the invention  
in the U.S. and every foreign country and the 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 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.

**WE HEREBY AUTHORIZE** the Assignee to insert in this assignment document the filing  
date and application number of the application if the date and number are unavailable at the  
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forth herein, and that 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

In re Appln. of Feng et al.  
Attorney Docket No. \_\_\_\_\_

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IN WITNESS WHEREOF, we have hereunder set our hands on the dates shown below.

Date \_\_\_\_\_  
Xiao'an FAN

Date \_\_\_\_\_  
Witness

Date \_\_\_\_\_  
Witness

Date \_\_\_\_\_  
Yongxia LV

Date \_\_\_\_\_  
Witness

Date \_\_\_\_\_  
Witness

Date June 9, 2013  
Xiaofeng CHEN  
Xiaofeng CHEN

Date June 9, 2013  
Yazhen REN  
Witness

Date June 9, 2013  
Jie SUN  
Witness