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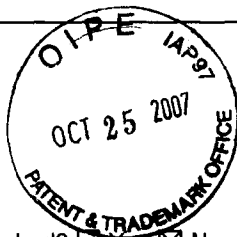
U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 10195.0008  
Attorney Customer Number: 22,852

To the Director of the U.S. Patents

attached original documents or copy thereof.

1. Name of conveying parties:

- 1) Frank EFFENBERGER
- 2) Jun ZHAO
- 3) Wei HUANG
- 4) Wei LIN



Additional name of conveying party attached? ☐ Yes ☒ No

2. Name and address of receiving party:

Name: HUAWEI TECHNOLOGIES CO., LTD.

Internal  
Address:

Street: 518129 Huawei Administration Building, Bantian,  
Address: Longgang District, Shenzhen, Guangdong  
Province 518129, People's Republic of China

City:

State: Zip Code:

3. Nature of conveyance/Execution Date:  
**August 22, 2007**

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Joint Research Agreement
- ☐ Government Interest Assignment
- ☐ Executive Order 9424, Confirmatory License
- ☐ Other

Additional name & Address attached?

☐ Yes ☒ No

4. Application number or patent number: ☐ This document is being filed together with a new application.

A. Patent Application Number:

11/889,630

Additional numbers attached?

B. Patent Number:

☐ Yes ☒ No

5. Name and address of to whom correspondence concerning document should be mailed:

Name: Mr. Ernest F. Chapman

Internal Address: FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Street Address: 901 New York Avenue, NW

City: Washington, D.C.

State: Zip: 20001-4413

6. Total number of applications and registrations involved: 1

7. Total fee (37 CFR 3.41): \$40

- ☐ Authorized to be charged by credit card
- ☐ Authorized to be charged to deposit account
- ☒ Enclosed (Please charge deficiency to deposit account)
- ☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers DP  
Expiration Date 06/09/16

b. Deposit Account No.: 06-0916

Authorized User Name 11805636

8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Ernest F. Chapman  
Registration No. 25,961

Signature

October 25, 2007  
Date

Total number of pages including cover sheet, attachments and documents: 5

Attorney Docket No.

JOINT INVENTION  
(U.S. Rights Only)**ASSIGNMENT**

WHEREAS, We, the below named inventors, (hereinafter referred to as assignors, have made an invention entitled:

**METHOD AND DEVICE OF TRANSMITTING SDH SERVICES IN PASSIVE OPTICAL NETWORK**

for which we executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on (Application No. ); and

WHEREAS, HUAWEI TECHNOLOGIES CO., LTD., a corporation of the People's Republic of China, whose post office address is 518129 Huawei Administration Building, Bantian, Longgang District, Shenzhen, Guangdong Province 518129, People's Republic of China (hereinafter referred to as assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, we, as assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with assignee, its successors and assigns, any facts known to us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. 11/889,630, filed ) the filing date and application number of said application when known.

August 15, 2007

Attorney Docket No.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

First Assignor

Assignor Name: Effenberger Frank

Assignor Address: 518129 Huawei Administration Building,  
Bantian, Longgang District, Shenzhen,  
Guangdong Province 518129, People's Republic of China

Citizenship: USA

Signature:

Date: 22 Aug. 2007

Second Assignor

Assignor Name: Jun ZHAO

Assignor Address: 518129 Huawei Administration Building,  
Bantian, Longgang District, Shenzhen,  
Guangdong Province 518129, People's Republic of China

Citizenship: China

Signature:

Date:

Third Assignor

Assignor Name: Wei HUANG

Assignor Address: 518129 Huawei Administration Building,  
Bantian, Longgang District, Shenzhen,  
Guangdong Province 518129, People's Republic of China

Citizenship: China

Signature:

Date:

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Attorney Docket No.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

## First Assignor

Assignor Name: Effenberger Frank

Assignor Address: 518129 Huawei Administration Building,  
Bantian, Longgang District, Shenzhen,  
Guangdong Province 518129, People's Republic of China

Citizenship: USA

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## Second Assignor

Assignor Name: Jun ZHAO

Assignor Address: 518129 Huawei Administration Building,  
Bantian, Longgang District, Shenzhen,  
Guangdong Province 518129, People's Republic of China

Citizenship: China

Signature: Jun ZHAODate: 2007-8-22

## Third Assignor

Assignor Name: Wei HUANG

Assignor Address: 518129 Huawei Administration Building,  
Bantian, Longgang District, Shenzhen,  
Guangdong Province 518129, People's Republic of China

Citizenship: China

Signature: Wei HuangDate: 2007-8-22

Attorney Docket No.

Forth Assignor

Assignor Name: Wei LIN

Assignor Address: 518129 Huawei Administration Building,  
Bantian, Longgang District, Shenzhen,  
Guangdong Province 518129, People's Republic of China

Citizenship: China

Signature: Wei LIN

Date: 2007-08-22

Customer Number 22.852  
Attorney Docket No. 10195.0004

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PATENT

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RECORDED: 10/25/2007

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