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08-08-2002

FORM COVER SHEET *Patents Only*

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To the Honorable Cor  
Please record the attac

Attorney Dkt. No.: 45106.249688

1017 U.S. PTO

10/205750

07/26/02

1. Name of conveying party(ies):

Tingbo HE

7/26/02

2. Name and address of receiving party(ies):

Huawei Technologies Co., Ltd.  
Huawei Service Centre Building, Kefa Road  
Science-Based Industrial Park, Nnanshan District  
Shenzhen 518057, Guangdong, P.R. ChinaAdditional name(s) of conveying party(ies) attached? Yes ☐ No ☒

3. Nature of conveyance:

- ☒ Assignment  
☐ Merger  
☐ Security Agreement  
☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: \_\_

Additional name(s) & address(es) attached? Yes ☐ No ☒4. Application No. 10/205750 Patent No. \_\_

If this document is being filed together with a new application, the execution date of the application is: \_\_

Additional numbers attached? Yes ☐ No ☒

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

ALSTON & BIRD LLP  
Bank of America Plaza  
101 South Tryon Street, Suite 4000  
Charlotte, NC 28280-4000

6. Total number of applications and patents involved:

17. Total fee (37 CFR 3.41) \$40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit account number: 16-0605

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9. 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.*

Name of Person Signing: Andrew T. Meunier

Reg. No. 40,726

July 26, 2002

Date

Total number of pages including cover sheet, attachments, and document: 3

ATL01/11234394v1

PATENT  
REEL: 013151 FRAME: 0459

**ASSIGNMENT - WORLDWIDE**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

Huawei Technologies Co., Ltd.  
Huawei Service Centre Building, Kefa Road  
Science-Based Industrial Park, Nanshan District  
Shenzhen 518057, Guangdong, P.R. CHINA

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"FILTERING METHOD FOR DIGITAL PHASE LOCK LOOP"**

as set forth in this United States Patent Application

- ☒ executed concurrently herewith
- ☐ executed on
- ☐ Application No. \_\_\_\_; filed
- ☒ Application claims priority from PCT/CN01/00068, filed January 20, 2001 and Chinese Patent Application No. 00101582.6, filed January 27, 2000, all applications listed above being hereinafter referred to as the "application(s)";

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs,

models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

2002.7.17  
Date

Tingbo HE  
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Witness: Pengyan LI

Witness: Pengyan LI

Attorney Docket No. 45106.249688  
ATLD1/11234350v1