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1.	Name of conveying parties: 1.) Wenxiao YU 2.) Yinliang HU 3.) Peilin YANG				
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: X				
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). 14/104,616, filed December 12, 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: 2382.1138 Attention: Gene M. Garner, II 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)				
8.	Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)				
	M. Garner, II, Reg. No. 34,172 of Person Signing Total number of pages including cover sheet: 5				
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Revised 3/13

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Attorney Docket No. Client Reference No. 83077456US06

ASSIGNMENT

WHEREAS, WE,

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

Peilin YANG Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA; Yinliang HU Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA; and

have invented and own a certain invention entitled:
METHOD, APPARATUS, AND SYSTEM FOR LOCATING IPTV FAULT
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

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REEL: 032062 FRAME: 0986

In re Appln. of Yu 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 Nov. 14, 2013	Wenxiao YU Wenxiao YU
Date Nov 14, 2013	Ruiteng WANG Witness
Date Nov.14.2013	Witness Youging YANG Witness
***	·
Date	Yinliang HU
Date	Witness
Date	Witness
Date	Peilin YANG
DateNOJ . 14 , 2013	Ka CUU Witness
Date Nov 14. 2013	Conginam]] Witness

Attorney Docket No. ______ Client Reference No. 83077456US06

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WHEREAS, WE,

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

Peilin YANG Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA; Yinliang HU Huawei Administration Building Bantian, Longgang District Shenzhen, 518129, Guangdong P.R. CHINA; and

have invented and own a certain invention entitled:

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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 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

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

Date	Wenxiao YU
Date	Witness
Date	Witness
Date Nov 22, 2013.	Tinliany HU Yinliang HU
Date	Qikun WEI Witness
Date //0122. 2013	<u>Jinhui 2HANG</u> Witness
Date	Peilin YANG
Date	Witness
Date	Witness

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