

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
WENDOU ZHANG	08/25/2016
CHANGWU XU	08/25/2016
LIPING MA	08/25/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HUAWEI MARINE NETWORKS CO., LTD.
<b>Street Address:</b>	5TH-6TH FLOOR, W3C BUILDING, WEST SECTION, FINANCE AVE, NO. 3 STREET
<b>Internal Address:</b>	ECONOMIC-TECHNOLOGICAL DEVELOPMENT AREA
<b>City:</b>	TIANJIN
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	300457
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15153517
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)616-5700
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<b>ATTORNEY DOCKET NUMBER:</b>	HW724283
<b>NAME OF SUBMITTER:</b>	EUNICE RUIZ
<b>SIGNATURE:</b>	/Eunice Ruiz/
<b>DATE SIGNED:</b>	09/08/2016
<b>Total Attachments: 2</b>	
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**ASSIGNMENT**

**WHEREAS, WE,**

Wendou ZHANG  
5th-6th Floor, W3C Building,  
West Section, Finance Ave, No.3  
Street, Economic- Technological  
Development Area, Tianjin,  
300457, P. R. China; and

Changwu XU  
5th-6th Floor, W3C Building,  
West Section, Finance Ave, No.3  
Street, Economic- Technological  
Development Area, Tianjin,  
300457, P. R. China; and

Liping MA  
5th-6th Floor, W3C Building,  
West Section, Finance Ave, No.3  
Street, Economic- Technological  
Development Area, Tianjin,  
300457, P. R. China.

have invented and own a certain invention entitled:  
**RECONFIGURABLE OPTICAL ADD-DROP MULTIPLEXER APPARATUS**  
for which invention we have executed an application (provisional or non-provisional) for a U.S.  
patent, which was filed on 12 May 2016, under U.S. Application No. 15153517 and

**WHEREAS**, HUAWEI MARINE NETWORKS CO.,LTD., of 5th-6th Floor, W3C  
Building, West Section, Finance Ave, No.3 Street, Economic- Technological Development  
Area, Tianjin, 300457, 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

In re Appln. of ZHANG et al.  
Attorney Docket No. HW724283

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 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 Aug. 25, 2016

Wendou ZHANG  
Wendou ZHANG

Date Aug. 25, 2016

Changwu XU  
Changwu XU

Date Aug. 25, 2016

Liping MA  
Liping MA