

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT						
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT						
<b>CONVEYING PARTY DATA</b>							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yuhui LUO</td> <td>09/09/2005</td> </tr> <tr> <td>Kam Tai CHAN</td> <td>09/09/2005</td> </tr> </tbody> </table>		Name	Execution Date	Yuhui LUO	09/09/2005	Kam Tai CHAN	09/09/2005
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Yuhui LUO	09/09/2005						
Kam Tai CHAN	09/09/2005						
<b>RECEIVING PARTY DATA</b>							
<b>Name:</b>	The Chinese University of Hong Kong						
<b>Street Address:</b>	Shatin						
<b>City:</b>	New Territories						
<b>State/Country:</b>	HONG KONG						
<b>PROPERTY NUMBERS Total: 1</b>							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11231084</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11231084		
Property Type	Number						
Application Number:	11231084						
<b>CORRESPONDENCE DATA</b>							
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<b>NAME OF SUBMITTER:</b>	Sharon Lin						
<b>Total Attachments: 4</b> source=US 11231084#page1.tif source=US 11231084#page2.tif source=US 11231084#page3.tif source=US 11231084#page4.tif							

**OP \$40.00 11231084**

## CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, on this 11<sup>th</sup> day of December, 2007, to ensure that the assignments made effective 9 September, 2005 and filed with the United States Patent and Trademark Office, are completed, We, the undersigned inventors (the "Assignor"):

Given Name: Yuhui LUO  
Residence: Hong Kong Citizenship: PRC  
Mailing Address: Dept. of Electronic Engineering, Chinese University of Hong Kong,  
Shatin, N.T., Hong Kong

Given Name: Kam Tai CHAN  
Residence: Hong Kong Citizenship: PRC  
Mailing Address: Dept. of Electronic Engineering, Chinese University of Hong Kong,  
Shatin, N.T., Hong Kong S.A.R.

hereby sells, assigns, and transfers to **The Chinese University of Hong Kong**, a university established by Statue in the Hong Kong Special Administrative Region, having a registered office at Shatin, New Territories, Hong Kong Special Administrative Region, and its successors and assigns (collectively hereinafter called "**Assignee**"), all and entirety of right, title and interest throughout the world in and to any and all of the following (collectively, the "**Rights**"):

1. Any and all provisional patent applications, patent applications, patents, utility models, and design registrations listed in the table below (the "**Patents**");
2. All inventions and design, either claimed or described in any or all of the Patents (collectively, the "**Inventions**");
3. All rights with respect to the Inventions, including all U.S. patents or other governmental grants or issuances that may be granted with respect to the Inventions or from any direct or indirect divisionals, continuations, continuations-in-part, or other patent applications claiming priority rights from the Patents ("**Potential Patents**");
4. All reissues, reexaminations, extensions, or registrations of the Patents or Potential Patents;
5. All non-United States patents, patent applications, and counterparts relating to any or all of the Inventions, the Patents, or Potential Patents, including, without limitation, letter patents, certificates of invention, certificates of inventors, innovation patents, utility models, utility certificates, industrial design protection, design patent protection, and other governmental grants or issuances ("**Foreign Rights**"), and including the right to file foreign applications directly in the name of the Assignee, its successors and assigns;
6. The right to claim priority rights deriving from the Patents, including but not limited to the right to claim priority based on the filing date of any of the Patents under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.
7. All causes of action and remedies related to any or all of the Patents, the Inventions, Potential Patents, or Foreign Rights (including, without limitation, the right to sue for past, present,

or future infringement, misappropriation or violation of rights related to any of the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and

8. Any and all other rights and interests arising out of, in connection with, or in relation to the Patents, the Inventions, Potential Patents, or Foreign Rights.

<u>Patent or Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent or Application</u>
11/231,084	US	9/19/2005	System and methods for quantum key distribution over WDM links
PCT/CN06/001816	WO	7/24/2006	System and methods for quantum key distribution over WDM links

The Assignor covenants with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the Assignor and that full right to convey the same as herein expressed is possessed by the Assignor.

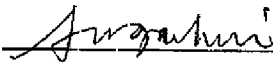
The Assignor authorizes the Assignee to apply in all countries in the name of the Assignor or in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and designs; and the Assignor agrees for the Assignor and Assignor's heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

The Assignor will not sign any writing or do any act conflicting with this Assignment, and, without further compensation, will sign all documents and do such additional acts as the Assignee, its successors, legal representatives, and assigns deem necessary or desirable to perfect enjoyment of the Rights, conduct proceedings regarding the Rights (including any litigation or interference proceedings), or perfect or defend title to the Rights. The Assignor requests the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment will inure to the benefit of the Assignee, its successors, legal representatives, and assigns and will be binding upon the Assignor, its successors, legal representatives and assigns.

**ASSIGNOR:**

Assignor's Name: **Yuhui LUO**

Assignor's Signature: 

The undersigned person witnessed the signature of Lu, Yuhui to the above Assignment of Patent Rights

Signature: 


Print Name: CHAN, KAM TAI

**ASSIGNOR:**

Assignor's Name: **Kam Tai CHAN**

Assignor's Signature: 

The undersigned person witnessed the signature of KAM TAI CHAN to the above Assignment of Patent Rights

Signature: 

Print Name: KAM TAI CHAN