

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Shaokai WANG</td><td>08/24/2011</td></tr><tr><td>Erjun ZANG</td><td>08/24/2011</td></tr><tr><td>Ye LI</td><td>08/24/2011</td></tr><tr><td>Jianping CAO</td><td>08/24/2011</td></tr><tr><td>Zhanjun FANG</td><td>08/24/2011</td></tr></tbody></table>	Name	Execution Date	Shaokai WANG	08/24/2011	Erjun ZANG	08/24/2011	Ye LI	08/24/2011	Jianping CAO	08/24/2011	Zhanjun FANG	08/24/2011	
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<table border="1"><tr><td>Name:</td><td>National Institute of Metrology Peoples Republic of China</td></tr><tr><td>Street Address:</td><td>18 Beisanhuan East Rd.</td></tr><tr><td>City:</td><td>Beijing</td></tr><tr><td>State/Country:</td><td>CHINA</td></tr><tr><td>Postal Code:</td><td>100013</td></tr></table>	Name:	National Institute of Metrology Peoples Republic of China	Street Address:	18 Beisanhuan East Rd.	City:	Beijing	State/Country:	CHINA	Postal Code:	100013			
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Application Number:	13188592												
CORRESPONDENCE DATA													
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ATTORNEY DOCKET NUMBER:	01581.0013-01												
NAME OF SUBMITTER:	Terri L. McMillan-Solomon												
Total Attachments: 3 source=01581-0013-01-assignment#page1.tif source=01581-0013-01-assignment#page2.tif source=01581-0013-01-assignment#page3.tif													

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PATENT  
REEL: 027017 FRAME: 0990

Attorney Docket No.: 01581.0013-01

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

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

**GRATING EXTERNAL-CAVITY LASER AND QUASI-SYNCHRONOUS TUNING METHOD THEREOF**

for which we executed an application for United States Letters Patent concurrently herewith or on \_\_\_\_\_ or filed an application for United States Letters Patent on **July 22, 2011** (Application No. **13/188,592**); and

WHEREAS, **National Institute of Metrology Peoples Republic of China**, a corporation of **China**, whose post office address is **18 Beisanhuan East Rd., Beijing 100013, 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. **13/188,592**, filed **July 22, 2011**) the filing date and application number of said application when known.

Attorney Docket No.: 01581.0013-01

IN TESTIMONY WHEREOF, we have hereunto set our hands.

**First Assignor**Assignor Name: **Shaokai WANG**Assignor Address: c/o National Institute of Metrology Peoples Republic of China  
18 Beisanhuan East Rd., Beijing 100013, China

Citizenship: China

Signature: 王少凯Date: 2011. 8. 24**Second Assignor**Assignor Name: **Erjun ZANG**Assignor Address: c/o National Institute of Metrology Peoples Republic of China  
18 Beisanhuan East Rd., Beijing 100013, China

Citizenship: China

Signature: 张尔军Date: 2011. 8. 24**Third Assignor**Assignor Name: **Ye LI**Assignor Address: c/o National Institute of Metrology Peoples Republic of China  
18 Beisanhuan East Rd., Beijing 100013, China

Citizenship: China

Signature: 李叶Date: 2011. 8. 24

Attorney Docket No.: 01581.0013-01

**Fourth Assignor**

Assignor Name: Jianping CAO

Assignor Address: c/o National Institute of Metrology Peoples Republic of China  
18 Beisanhuan East Rd., Beijing 100013, China

Citizenship: China

Signature: 曹建平

Date: 2011.8.24

**Fifth Assignor**

Assignor Name: Zhanjun FANG

Assignor Address: c/o National Institute of Metrology Peoples Republic of China  
18 Beisanhuan East Rd., Beijing 100013, China

Citizenship: China

Signature: 方展军

Date: 2011.8.24