

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>Jia XIE</td> <td>11/14/2012</td> </tr> <tr> <td>Ruigai CHEN</td> <td>11/14/2012</td> </tr> <tr> <td>Lei NIU</td> <td>11/14/2012</td> </tr> <tr> <td>Xiaoping SUN</td> <td>11/14/2012</td> </tr> <tr> <td>Hui HUANG</td> <td>11/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jia XIE	11/14/2012	Ruigai CHEN	11/14/2012	Lei NIU	11/14/2012	Xiaoping SUN	11/14/2012	Hui HUANG	11/14/2012
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<table border="1"> <tr> <td>Name:</td> <td>TIANMA MICRO-ELECTRONIC CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>22F, Hangdu Building, Catic Zone, Shennan Road</td> </tr> <tr> <td>City:</td> <td>Shenzhen</td> </tr> <tr> <td>State/Country:</td> <td>CHINA</td> </tr> </table>		Name:	TIANMA MICRO-ELECTRONIC CO., LTD.	Street Address:	22F, Hangdu Building, Catic Zone, Shennan Road	City:	Shenzhen	State/Country:	CHINA				
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CORRESPONDENCE DATA													
<p>Fax Number: 2024293902 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (202) 429-3000 Email: tcoates@steptoe.com Correspondent Name: Harold H. Fox, Steptoe & Johnson Address Line 1: 1330 Connecticut Avenue, NW Address Line 2: 19373.0001 Address Line 4: Washington, DISTRICT OF COLUMBIA 20036</p>													
ATTORNEY DOCKET NUMBER:	19373.0001												
NAME OF SUBMITTER:	Terri L. Coates												
Total Attachments: 6													

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ASSIGNMENT

For valuable consideration, we, Jia XIE, Ruigai CHEN, Lei NIU, Xiaoping SUN, and Hui HUANG, all of Shenzhen, China, hereby assign to: TIANMA MICRO-ELECTRONIC CO., LTD, having a place of business at 22F, Hangdu Building, Catic Zone, Shennan Road, Shenzhen, China, its successors and assigns (collectively hereinafter called “the Assignee”), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled LIQUID CRYSTAL GRATING MODULE AND TWO DIMENSION-THREE DIMENSION SWITCHABLE LIQUID CRYSTAL DISPLAY DEVICE USING THE SAME, filed October 25, 2012, and assigned U.S. Application Number 13/643,445, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and application number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application 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; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors’ certificates for said inventions and improvements; and we agree for ourselves and our respective 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.

IN WITNESS WHEREOF, I hereto set my hand and seal at Shenzhen, China
this 14th day of November, 2012
Jia XIE L.S.
Jia XIE

Signature witnessed by:

Nov. 16, 2012
Date

WITNESS: Xiuzhen FENG
Printed Name: Xiuzhen FENG
Address: Shenzhen, China

Signature witnessed by:

Nov. 16, 2012
Date

WITNESS: Xiaoli SONG
Printed Name: Xiaoli SONG
Address: Shenzhen, China

IN WITNESS WHEREOF, I hereto set my hand and seal at Shenzhen, China,
this 14th day of November, 2012.
Ruigai CHEN L.S.
Ruigai CHEN

Signature witnessed by:

Nov. 16, 2012

Date

WITNESS: Xiuzhen FENG

Printed Name: Xiuzhen FENG

Address: Shenzhen, China

Signature witnessed by:

Nov. 16, 2012

Date

WITNESS: Xiaoli SONG

Printed Name: Xiaoli SONG

Address: Shenzhen, China

IN WITNESS WHEREOF, I hereto set my hand and seal at Shenzhen, China,
this 14th day of November, 2012
Lei NIU L.S.
Lei NIU

Signature witnessed by:
Nov. 16, 2012
Date
WITNESS: Xiuzhen FENG
Printed Name: Xiuzhen FENG
Address: Shenzhen, China

Signature witnessed by:
Nov. 16, 2012
Date
WITNESS: Xiaoli SONG
Printed Name: Xiaoli SONG
Address: Shenzhen, China

IN WITNESS WHEREOF, I hereto set my hand and seal at Shenzhen, China,
this 14th day of November, 2012.
Xiaoping SUN L.S.
Xiaoping SUN

Signature witnessed by:

Nov. 16, 2012

Date

WITNESS: Xiuzhen FENG

Printed Name: Xiuzhen FENG

Address: Shenzhen, China

Signature witnessed by:

Nov. 16, 2012

Date

WITNESS: Xiaoli SONG

Printed Name: Xiaoli SONG

Address: Shenzhen, China

IN WITNESS WHEREOF, I hereto set my hand and seal at Shenzhen, China,
this 14th day of November, 2012
Hui HUANG L.S.
Hui HUANG

Signature witnessed by:

Nov. 16, 2012

Date

WITNESS: Xiuzhen FENG

Printed Name: Xiuzhen FENG

Address: Shenzhen, China

Signature witnessed by:

Nov. 16, 2012

Date

WITNESS: Xiaoli SONG

Printed Name: Xiaoli SONG

Address: Shenzhen, China