

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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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>Gaile Lin</td> <td>08/05/2008</td> </tr> <tr> <td>Guoquan Li</td> <td>08/05/2008</td> </tr> <tr> <td>Hong Guan</td> <td>08/05/2008</td> </tr> </tbody> </table>		Name	Execution Date	Gaile Lin	08/05/2008	Guoquan Li	08/05/2008	Hong Guan	08/05/2008
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Guoquan Li	08/05/2008								
Hong Guan	08/05/2008								
<b>RECEIVING PARTY DATA</b>									
<b>Name:</b>	Zoran Corporation								
<b>Street Address:</b>	1390 Kifer Road								
<b>City:</b>	Sunnyvale								
<b>State/Country:</b>	CALIFORNIA								
<b>Postal Code:</b>	94086								
<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>12299241</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12299241				
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Application Number:	12299241								
<b>CORRESPONDENCE DATA</b>									
<b>Fax Number:</b>	(202)628-8844								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
<b>Email:</b>	knobles@crowell.com								
<b>Correspondent Name:</b>	Kimberley G. Nobles								
<b>Address Line 1:</b>	PO Box 14300								
<b>Address Line 4:</b>	Washington, DISTRICT OF COLUMBIA 20044								
<b>ATTORNEY DOCKET NUMBER:</b>	101042.59953US (P002)								
<b>NAME OF SUBMITTER:</b>	Kimberley G. Nobles								
<b>Total Attachments: 2</b> source=59953USAssignment#page1.tif source=59953USAssignment#page2.tif									

**OP \$40.00 12299241**

**ASSIGNMENT**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto:

**ZORAN CORPORATION  
1390 Kifer Road  
Sunnyvale, CA 94086**

(hereinafter ASSIGNEE) all right, title and interest in and to his invention relating to:

**SINGLE GENERAL PURPOSE INPUT/OUTPUT (GPIO) PIN MOTOR CONTROL  
CIRCUIT**

in any form or embodiment thereof, in the United States and all other countries, including applications for patents in all countries throughout the world and through the Patent Cooperation Treaty and/or European Patent Convention, as set forth in his United States Patent Application (check one):

- executed concurrently herewith,  
executed on \_\_\_\_\_,  
Serial No. \_\_\_\_\_, filed \_\_\_\_\_,
- PCT International Application, No.: PCT/CN2008/001180, filed June 18, 2008,
- Chinese National Application, No.: 200810091292.9, filed April 28, 2008,

including any and all applications claiming priority to said applications, divisions or continuations thereof and in and to any and all Letters Patent of the United States and all other countries which may issue on any such application or for said invention, including any and all reissues or extensions thereof, and all rights under the International Convention for the Protection of Industrial Property, to be held and enjoyed by said ASSIGNEE, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each of the undersigned hereby authorizes and requests the issuing authority to issue any and all such Letters patent to said ASSIGNEE, its successors or assigns in accordance herewith;

Each of the undersigned warrants and covenants that he has the full and unencumbered right to sell and assign the interests herein sold and assigned and that he has not executed and will not execute any document or instrument in conflict herewith;

Each of the undersigned further covenants and agrees he will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to him relating to said invention or patent application and that he will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted

ASSIGNMENT

Attorney Docket No.: 101042.59953US (P002)

therefore or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States or other countries for said invention;

Each of the undersigned hereby grants the firm of **CROWELL & MORING L.L.P.**, or any partner thereof, the power to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

Gaile LIN

_____	<u>Gaile LIN</u>	<u>August 5, 2008</u>
(Signature of witness (optional))	(Signature of 1 <sup>st</sup> inventor)	(Date)

Guoquan LI

_____	<u>Guoquan LI</u>	<u>August 5, 2008</u>
(Signature of witness (optional))	(Signature of 2 <sup>nd</sup> inventor)	(Date)

Hong GUAN

_____	<u>Hong GUAN</u>	<u>August 5, 2008</u>
(Signature of witness (optional))	(Signature of 3 <sup>rd</sup> inventor)	(Date)

Note: Prima facie evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

IR4155033