

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Albert Ratnakumar</td> <td>09/16/2009</td> </tr> <tr> <td>Shuang Xie</td> <td>09/08/2009</td> </tr> <tr> <td>Cheng-Hsiung Huang</td> <td>09/08/2009</td> </tr> <tr> <td>Yow-Juang (Bill) Liu</td> <td>09/09/2009</td> </tr> </tbody> </table>		Name	Execution Date	Albert Ratnakumar	09/16/2009	Shuang Xie	09/08/2009	Cheng-Hsiung Huang	09/08/2009	Yow-Juang (Bill) Liu	09/09/2009
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CORRESPONDENCE DATA											
<p>Fax Number: (415)837-0651</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: dkellogg@patentsgt.com</p> <p>Correspondent Name: David C. Kellogg</p> <p>Address Line 1: 870 Market Street</p> <p>Address Line 2: Suite 984</p> <p>Address Line 4: San Francisco, CALIFORNIA 94102</p>											
ATTORNEY DOCKET NUMBER:	A03341										
NAME OF SUBMITTER:	David C. Kellogg										
<p>Total Attachments: 2</p> <p>source=A03341_assignment#page1.tif</p>											

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PATENT
REEL: 023309 FRAME: 0842

A S S I G N M E N T

WHEREAS, We, Albert Ratnakumar, Shuang Xie, Cheng-Hsiung Huang, and Yow-Juang (Bill) Liu, residing respectively at 1048 Harlan Drive, San Jose, California 95129, 10133 Berkshire Court, Cupertino, California 95014, 7915 Belknap Drive, Cupertino, California 95014, and 1213 Tivoli Way, San Jose, California 95120, have made an invention entitled:

INTEGRATED CIRCUITS WITH NONVOLATILE MEMORY ELEMENTS

for which we have made application for United States Letter Patent on September 1, 2009 as United States Patent Application No. 12/551,796; and

WHEREAS, ALTERA CORPORATION, a corporation organized and existing under the laws of the State of California and having an address of 101 Innovation Drive, San Jose, California 95134, is desirous of acquiring the entire interest in said invention, said United States patent application and in any Letters Patent which may issue thereon;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto the said ALTERA CORPORATION, its successors, assigns and legal representatives, all right, title and interest in and to said invention and any improvements thereon for all countries of the world, and in and to said United States patent application, including any continuations, continuations-in-part and divisions thereof,

and any substitute applications therefor, and including the right to claim priority under the International Convention based on said patent application, and any patent which may issue thereon, and any reissues of the same; and all right, title and interest in and to every patent application filed or to be filed on said invention in any other country, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any and all patents which may issue thereon, and any reissues and extensions of the same;

and we hereby authorize and request competent authorities to grant and issue any and all patents on said invention to the said ALTERA CORPORATION as the assignee of the entire interest therein; and we further agree to execute upon request of the assignee such additional documents, if any, as are necessary and proper to secure patent protection on said invention throughout all countries of the world, and to otherwise give full effect to and perfect the rights of the assignee under this Assignment.

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

9/16/09

Date

Albert Ratnakumar

Albert Ratnakumar

9/18/09

Date

Shuang Xie

Shuang Xie

9/3/09

Date

Cheng-Hsiung Huang

Cheng-Hsiung Huang

9/9/09

Date

Yow-Juang (Bill) Liu

Yow-Juang (Bill) Liu