

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>John HECK</td> <td>08/14/2012</td> </tr> <tr> <td>Haisheng RONG</td> <td>08/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	John HECK	08/14/2012	Haisheng RONG	08/25/2012
Name	Execution Date						
John HECK	08/14/2012						
Haisheng RONG	08/25/2012						
RECEIVING PARTY DATA							
Name:	Intel Corporation						
Street Address:	2200 Mission College Boulevard						
City:	Santa Clara						
State/Country:	CALIFORNIA						
Postal Code:	95052						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13536723</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13536723		
Property Type	Number						
Application Number:	13536723						
CORRESPONDENCE DATA							
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ATTORNEY DOCKET NUMBER:	42P45096						
NAME OF SUBMITTER:	James M. Howard/						
Total Attachments: 2 source=42P45096 Assignment signed by both inventors#page1.tif source=42P45096 Assignment signed by both inventors#page2.tif							

CH \$40.00 13536723

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

John HECK; Haisheng RONG

hereby sell, assign, and transfer to

Intel Corporation

a Corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California 95052 United States ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

INVERTED 45 DEGREE MIRROR FOR PHOTONIC INTEGRATED CIRCUITS

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 13/536,723 filed June 28, 2012,

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

8/14/12 [Signature]
Date Name: John HECK

8/25/12 [Signature]
Date Name: Haisheng RONG

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

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