

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>Ravi K Nalla</td> <td>07/20/2012</td> </tr> <tr> <td>Mathew J Manusharow</td> <td>03/29/2010</td> </tr> </tbody> </table>		Name	Execution Date	Ravi K Nalla	07/20/2012	Mathew J Manusharow	03/29/2010
Name	Execution Date						
Ravi K Nalla	07/20/2012						
Mathew J Manusharow	03/29/2010						
RECEIVING PARTY DATA							
Name:	Intel Corporation						
Street Address:	2200 Mission College Boulevard						
City:	Santa Clara						
State/Country:	CALIFORNIA						
Postal Code:	95054						
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>12755183</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12755183		
Property Type	Number						
Application Number:	12755183						
CORRESPONDENCE DATA							
Fax Number:	6126773572						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Email:	inteldocs@cpaglobal.com						
Correspondent Name:	Robert G. Winkle						
Address Line 1:	2200 Mission College Boulevard						
Address Line 4:	Santa Clara, CALIFORNIA 95054						
ATTORNEY DOCKET NUMBER:	P32897						
NAME OF SUBMITTER:	Robert G. Winkle						
Total Attachments: 3 source=P32897 EXE ASSIGN#page1.tif source=P32897 EXE ASSIGN#page2.tif source=P32897 EXE ASSIGN#page3.tif							

CH \$40.00 12755183

ASSIGNMENT

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

RAVI K. NALLA AND MATHEW J. MANUSHAROW

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 USA ("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 and improvements that are disclosed in the application for the United States patent entitled:

FORMING IN-SITU MICRO-FEATURE STRUCTURES WITH CORELESS PACKAGES

(I hereby authorize and request my attorney, associated with Customer Number 59796, to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on April 6, 2010 as
United States Application Number 12/755,183 and

which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

and in and to said application and all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, 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 and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority resulting from the filing of said United States applications;

agree that said Assignee may apply for and receive a patent or patents for said inventions and 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 design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and 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 and 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 and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said 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.

D. Ravi Kiran 7/20/12
RAVI K. NALLA (Today's Date)

MATHEW J. MANUSHAROW (Today's Date)

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.

RAVI K. NALLA

(Today's Date)



MATHEW J. MANUSHAROW

3-29-2010

(Today's Date)