

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Qing Ma</td> <td>09/15/2012</td> </tr> <tr> <td>Johanna M Swan</td> <td>09/14/2012</td> </tr> <tr> <td>Robert B Starkston</td> <td>09/13/2012</td> </tr> <tr> <td>John S Guzek</td> <td>01/09/2013</td> </tr> <tr> <td>Robert L Sankman</td> <td>01/11/2013</td> </tr> <tr> <td>Aleksandar Aleksov</td> <td>09/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	Qing Ma	09/15/2012	Johanna M Swan	09/14/2012	Robert B Starkston	09/13/2012	John S Guzek	01/09/2013	Robert L Sankman	01/11/2013	Aleksandar Aleksov	09/14/2012
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<table border="1"> <tr> <td>Name:</td> <td>Intel Corporation</td> </tr> <tr> <td>Street Address:</td> <td>2200 Mission College Blvd</td> </tr> <tr> <td>City:</td> <td>Santa Clara</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95054</td> </tr> </table>		Name:	Intel Corporation	Street Address:	2200 Mission College Blvd	City:	Santa Clara	State/Country:	CALIFORNIA	Postal Code:	95054				
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CORRESPONDENCE DATA															
<p>Fax Number: 6126773572 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: inteldocs@cpaglobal.com Correspondent Name: Robert G. Winkle Address Line 1: 2200 Mission College Blvd Address Line 4: Santa Clara, CALIFORNIA 95054</p>															
ATTORNEY DOCKET NUMBER:	P44340														
NAME OF SUBMITTER:	Robert G. Winkle														

CH \$40.00 13625406

Signature:	/Robert G. Winkle/
Date:	05/29/2013
Total Attachments: 8 source=P44340 EXE ASSIGN#page1.tif source=P44340 EXE ASSIGN#page2.tif source=P44340 EXE ASSIGN#page3.tif source=P44340 EXE ASSIGN#page4.tif source=P44340 EXE ASSIGN#page5.tif source=P44340 EXE ASSIGN#page6.tif source=P44340 EXE ASSIGN#page7.tif source=P44340 EXE ASSIGN#page8.tif	

ASSIGNMENT

WHEREAS, We, QING MA, residing at 12540 Scully Ave, Saratoga, CA 95070, and JOHANNA M. SWAN, residing at 19815 N. 84th Way, Scottsdale, AZ 85255, and ROBERT B. STARKSTON, residing at 2004 E Granite View Dr Phoenix, , AZ 85048, and JOHN S. GUZEK, residing at 805 W Beechnut Dr., Chandler, AZ 85248, and ROBERT L. SANKMAN, residing at 13202 S 34th Way, Phoenix, AZ 85044, and ALEKSANDAR ALEKSOV, residing at 4255 E. Westchester Dr., Chandler, AZ 85249, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States entitled MICROELECTRONIC STRUCTURES HAVING LAMINATED OR EMBEDDED GLASS ROUTING STRUCTURES FOR HIGH DENSITY PACKAGING;

WHEREAS, We hereby authorize and request our attorneys, associated with Customer Number 92265, to insert here in parentheses (SER. No. 13/625,406 _____; Filing Date: September 24, 2012 _____) the filing date and application number of said application when known

AND WHEREAS, Intel Corporation, a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 2200 Mission College Blvd., Santa Clara, CA 95052 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

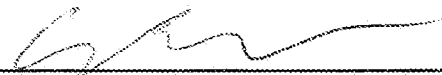
NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights

under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

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

IN TESTIMONY WHEREOF, I have hereunto set my hand this 15th day of September, 2012.



QING MA

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

JOHANNA M. SWAN

under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

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IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

QJNG MA

IN TESTIMONY WHEREOF, I have hereunto set my hand this 14 day of September, 2012.

Johanna M. Swan
JOHANNA M. SWAN

IN TESTIMONY WHEREOF, I have hereunto set my hand this 13 day of September, 2012.



ROBERT B. STARKSTON

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

JOHN S. GUZEK

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

ROBERT L. SANKMAN

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

ALEKSANDAR ALEKSOV

4330 S. Pleasant Ct

ASSIGNMENT

WHEREAS, We, QING MA, residing at 12540 Scully Ave, Saratoga, CA 95070, and JOHANNA M. SWAN, residing at 19815 N. 84th Way, Scottsdale, AZ 85255, and ROBERT B. STARKSTON, residing at 2004 E Granite View Dr Phoenix, AZ 85048, and JOHN S. GUZEK, residing at 805 W Beechnut Dr., Chandler, AZ 85248, and ROBERT L. SANKMAN, residing at 13202 S 34th Way, Phoenix, AZ 85044, and ALEKSANDAR ALEKSOV, residing at 4255 E. Westchester Dr., Chandler, AZ 85249, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States entitled MICROELECTRONIC STRUCTURES HAVING LAMINATED OR EMBEDDED GLASS ROUTING STRUCTURES FOR HIGH DENSITY PACKAGING;

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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

ROBERT B. STARKSTON

IN TESTIMONY WHEREOF, I have hereunto set my hand this 9 day of Jan, 2012.



JOHN S. GUZEK

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

ROBERT L. SANKMAN

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

ALEKSANDAR ALEKSOV

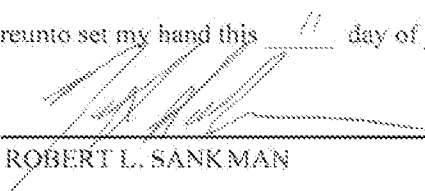
IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

ROBERT B. STARKSTON

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

JOHN S. GUZEK

IN TESTIMONY WHEREOF, I have hereunto set my hand this 11 day of January, 2012.



ROBERT L. SANKMAN

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

ALEKSANDAR ALEKSOV

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

ROBERT B. STARKSTON

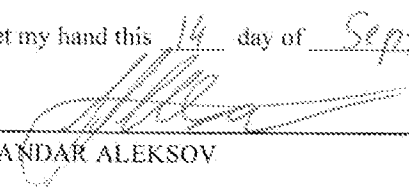
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JOHN S. GUZEK

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2012.

ROBERT L. SANKMAN

IN TESTIMONY WHEREOF, I have hereunto set my hand this 14 day of September, 2012.



ALEKSANDAR ALEKSOV