PATENT ASSIGNMENT

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NATURE OF CONVEYANCE:			ASSIGNMENT			
CONVEYING PARTY	/ DATA					
		N	ame	Execution Date		
Minyoung Park				12/11/2012		
Adrian P. Stephens				12/13/2012		
Emily H. Qi				12/10/2012		
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Application Number:		137139	3713912			
Property Type			Number			
		137 139	912			
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ATTORNEY DOCKET NUMBER:			884.L63US1			
NAME OF SUBMITTER:			Lisa M. Lee			
Total Attachments: 6 source=884L63US1# source=884L63US1# source=884L63US1# source=884L63US1# source=884L63US1#	page2.tif page3.tif page4.tif					
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Atty Ref/Docket No.: 884.L63US1

Atty Ref/Docket No.: 884.L63US1	Patent and Trademark Office
To the Director of the U.S. Patent and Trademark Office: Ple	
To the Director of the U.S. Patent and Trademark Office: Ple 1. Name of conveying party(ies): Minyoung Park, Adrian P Stephens, Emily H. Qi Additional name(s) of conveying party(ies) attached? []Yes [X]No 3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: December 11, 2012, December 13,	 ase record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): Name: Intel Corporation Street Address: 2200 Mission College Blvd. City: <u>Santa Clara</u> State: <u>CA</u> Zip: <u>95054</u> Country: <u>United States of America</u> Additional name(s) & address(es) attached? []Yes [X]No
 2012, December 10, 2012 4. Application number(s) or patent number(s): If this document is being filed together with a new application A. Patent Application No.(s) Serial No. 13/713,912, filed December 13, 2012 Additional numbers attached? []Yes [X]No 	n, the execution date of the application is: B. Patent No.(s)
 5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Paul G. Kegley</u> Address: Schwegman, Lundberg & Woessner, P.A. P.O. Box 2938 Minneapolis, MN 554020938 	 6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41):\$ <u>40.00</u> []Enclosed [X]Authorized to be charged to deposit account 19-0743 8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743
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9. Statement and signature. To the best of my knowledge and belief, the foregoing inform of the original document.	nation is true and correct and any attached copy is a true cop
Paul G. Kegley/Reg. No. 60,336	LD. Keyly/ March 11, 2013 Signature Date

Total number of pages including cover sheet: 6

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450

Attorney Docket No. 884.L63US1 Client Ref. No. P45713

ASSIGNMENT

WHEREAS, Minyoung Park, Adrian P Stephens and Emily H. Qi (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on <u>December 13, 2012</u>, which application was assigned US patent application serial number <u>13/713,912</u>, and which is titled WIRELESS DEVICE AND METHOD OF SHORT MAC FRAME INDICATION; which are described in a patent application filed on June 20, 2012, which application was assigned US application serial number 61/661,914, and which is titled WIRELESS DEVICE AND METHOD OF SHORT MAC FRAME INDICATION USING THE SERVICE FIELD.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Intel Corporation (the "Assignee"), a corporation of the State of Delaware, having a place of business at 2200 Mission College Bivd., Santa Ciara, CA 95054, the Undersigned's ontire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the aboveidentified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee; AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 45457 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

PATENT REEL: 029964 FRAME: 0352

Docket No: 884 L63 US1 Client Ref. No. P45713

Assignor:

(Signature):

Name: Minyoung Park

City/State: Portland. OR

Date:

Assignment Assignment: Misyoung Park et al. Title: WIRELESS DEVICE AND MITHOD OF SHORT MACTRAME INDICATION Page 4 of S Docket No. 8843.63083 C'iem Ref. No. 245713

Assignor:

(Signature)

Name: Adrian P Stephens

City/State: Cottenham, Cambridge, United Kingdom

Date: 13 Dec 2012

Assignor:

a, (Signature):

Name: Emily H. Qi

City/State: Portland, OR

Date: 12/10/20/2____

RECORDED: 03/11/2013