503097355 12/11/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT3143961 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOONSUK KIM	09/26/2014
YONG LIU	09/26/2014
HARISH RAMAMURTHY	10/28/2014

RECEIVING PARTY DATA

Name:	APPLE INC.			
Street Address:	1 INFINITE LOOP			
City:	CUPERTINO			
State/Country:	CALIFORNIA			
Postal Code:	95014			

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14502790	

CORRESPONDENCE DATA

Fax Number: (408)341-3098

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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WOMBLE CARLYLE SANDRIDGE & RICE LLP **Correspondent Name:**

Address Line 1: PO BOX 7037

Address Line 2: ATT: IP DOCKETING

Address Line 4: ATLANTA, GEORGIA 30357-0037

ATTORNEY DOCKET NUMBER:	P22136US1/20340US.1
NAME OF SUBMITTER:	JAMES T. ASLANIS, JR.
SIGNATURE:	/James T. Aslanis, Jr./
DATE SIGNED:	12/11/2014

Total Attachments: 3

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PATENT REEL: 034483 FRAME: 0377 503097355

ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

WLAN AND LTE COEXISTENCE IN UNLICENSED RADIO FREQUENCY BANDS

(Atty. Docket No. P22136US1/20340US.1) Which bears application No. 14/502,790 which is a provisional application.
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:
1) Sell, assign and transfer to Apple Inc., a California corporation having a place of business at 1 Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signed on the date indicated beside my signature.
Signature: Date: 9/26/14

(Atty. Docket No. P22136US1/20340US.1)

PATENT REEL: 034483 FRAME: 0378

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- Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
- Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, 3) perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of 4) the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- Warrant and represent that I have not entered and will not enter into any assignment. contract, or understanding that conflicts with this assignment.
- Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

Signature:

Typed Name:

Date: 9/26/14

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(Any, Docket No. P	221361181/203	40US.1)		
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which is a pro	isional applicat	ion.		
For good and v acknowledged, I, an u	aluable conside ndersigned inve	ration, the receipt ntor, hereby:	and sufficiency of	which is hereby
1 Infinite Loop, Cupe	rtino, CA 95014 lication, any and ions, application ent Cooperation and all patents r	I ("ASSIGNEE"), al improvements s having priority Treaty ("PCT")	the entire right, in and inventions di claims to/from, an pplications based	sciosed increm, as were y derivative applications in whole or at least in
 Authorize and resulting from said ap renewal, re-examinati 	plication or any	divisional, contin	uation, design app	ed all United States Patents lication, substitute,
mouthern and acte which	ch are reasonably sany derivative	y necessary in cor applications there	nection with the p of, foreign applica	SIGNEE's expense, rosecution of said tions based thereon, and/o
4) Agree that the the ASSIGNEE, its stinventor, as well as the	accessors, assign	as and other legal.	representatives, an	shall inure to the benefit o d shall be binding upon th
5) Warrant and r	epresent that I building that confli	ave not entered as cis with this assign	d will not enter in iment.	to any assignment,
6) Authorize and with recordal of this	l request my atto assignment.	orney/agent to inse	n above the applic	cation No. in order to assis
Signed on the	date indicated J	geside my signatui	e.	
Signature:	VOUNT	\supset	Date:	10 28 14
Typed Name:	Harish BAMAMURTE	¥¥		*

vî.}

RECORDED: 12/11/2014