PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5381342

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TIANYAN PU	02/12/2019
WEI ZHANG	02/12/2019
WEI ZENG	02/13/2019
HAITONG SUN	02/13/2019
DAWEI ZHANG	02/13/2019
SAMI M. ALMALFOUH	02/12/2019

RECEIVING PARTY DATA

Name:	APPLE INC.
Street Address:	ONE APPLE PARK WAY
City:	CUPERTINO
State/Country:	CALIFORNIA
Postal Code:	95014

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16278984

CORRESPONDENCE DATA

Fax Number: (512)853-8801

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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

Phone: (512)853-8800 plitz@intprop.com Email:

MEYERTONS, HOOD, KIVLIN, KOWERT & G (APP **Correspondent Name:**

Address Line 1: P.O. BOX 398

Address Line 4: AUSTIN, TEXAS 78767-0398

ATTORNEY DOCKET NUMBER:	1888-37702
NAME OF SUBMITTER:	JEFFREY C. HOOD
SIGNATURE:	/Jeffrey C. Hood/
DATE SIGNED:	02/19/2019

Total Attachments: 3

PATENT REEL: 048368 FRAME: 0195

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> PATENT REEL: 048368 FRAME: 0196

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to <u>Apple Inc.</u> (the "Assignee"), a corporation organized and existing under and by virtue of the laws of the State of California, and having its principal place of business at <u>One Apple Park Way, Cupertino, CA 95014</u>, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith, and is entitled <u>Request to Send (RTS)/Clear to Send (CTS) Design in 5G</u>, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will 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 at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assigns.

(Signature) _ Name:	Tianyan Pu	Date: 52 /12 /2013
(Signature) _ Name:	Wei Zhang	Date: 02/12/2019
(Signature) _ Name:	Wei Zeng	Date:
(Signature) _ Name:	Haitong Sun	Date:
(Signature) _ Name:	Johnson O. Sebeni	Date:
(Signature) _ Name:	Dawei Zhang	Date:
(Signature) _ Name:	Sami M. Almalfouh	Date: <u>62/12/2019</u>

Customer No. 81310

Jeffrey C. Hood Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C. P.O. Box 398 Austin, TX 78767-0398

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COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assigns.

(Signature) Name:	Tianyan Pu	Date:
(Signature) Name:	Wei Zhang	Date:
(Signature) Name:	2602 Wei Zeng	Date: 02/13/2019
(Signature) ₋ Name:	Haitong Sun	Date:
(Signature) Name:	Johnson O. Sebeni	Date:
	Dawei Zhang	Date: $\frac{2/3/2=19}{}$
(Signature) _ Name:	Sami M. Almelfouh	Date:

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