

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5912537

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SAI SRAVAN BHARADWAJ KARRI	11/20/2019
SWAMINATHAN BALAKRISHNAN	11/20/2019
JUNSUNG LIM	11/21/2019
HAITONG SUN	12/20/2019
JOHNSON O. SEBENI	11/21/2019
FARAZ FAHEEM	01/13/2020
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:	16743459
CORRESPONDENCE DATA	
Fax Number:	(512)853-8801
<i>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.</i>	
Phone:	(512)853-8800
Email:	plitz@intprop.com
Correspondent Name:	KOWERT, HOOD, MUNYON, RANKIN, & G (APP
Address Line 1:	P.O. BOX 398
Address Line 4:	AUSTIN, TEXAS 78767-0398
ATTORNEY DOCKET NUMBER:	1888-66001
NAME OF SUBMITTER:	JEFFREY C. HOOD
SIGNATURE:	/Jeffrey C. Hood/
DATE SIGNED:	01/15/2020
Total Attachments: 6	

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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 Apple Inc. (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 One Apple Park Way, Cupertino, CA 95014, 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 **Feedback Overhead Reduction for Precoders under High Rank Spatial Channels**, 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) Beng
Name: Sai Sravan Bharadwaj Karri

Date: 20th NOV 2019

(Signature) _____
Name: Swaminathan Balakrishnan

Date: _____

(Signature) _____
Name: Junsung Lim

Date: _____

(Signature) _____
Name: Haitong Sun

Date: _____

(Signature) _____
Name: Johnson O. Sebeni

Date: _____

(Signature) _____
Name: Faraz Faheem

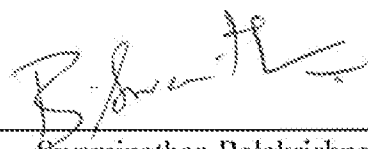
Date: _____

Customer No. 81310
Jeffrey C. Hood
Kowert, Hood, Munyon, Rankin & Goetzl, P.C.
P.O. Box 398
Austin, TX 78767-0398

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: Sai Sravan Bharadwaj Karri

Date: _____

(Signature)  _____
Name: Swaminathan Balakrishnan

Date: 11/20/2019

(Signature) _____
Name: Junsung Lim

Date: _____

(Signature) _____
Name: Haitong Sun

Date: _____

(Signature) _____
Name: Johnson O. Sebeni

Date: _____

(Signature) _____
Name: Faraz Faheem

Date: _____

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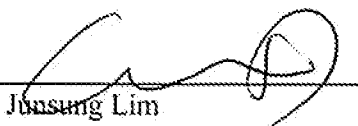
COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assigns.

(Signature) _____
Name: Sai Sravan Bharadwaj Karri

Date: _____

(Signature) _____
Name: Swaminathan Balakrishnan

Date: _____

(Signature) 
Name: Junsung Lim

Date: Nov 21 2019

(Signature) _____
Name: Haitong Sun

Date: _____

(Signature) 
Name: Johnson O. Sebeni

Date: 11/21/2019

(Signature) _____
Name: Faraz Faheem

Date: _____

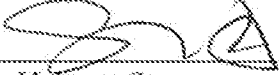
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(Signature) _____ Date: _____
Name: Sai Sravan Bharadwaj Karri

(Signature) _____ Date: _____
Name: Swaminathan Balakrishnan

(Signature) _____ Date: _____
Name: Junsung Lim

(Signature)  _____ Date: 12/20/2019
Name: Haitong Sun

(Signature) _____ Date: _____
Name: Johnson O. Sebeni

(Signature) _____ Date: _____
Name: Faraz Faheem

Customer No. 81310
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(Signature) _____
Name: Sai Sravan Bharadwaj Karri

Date: _____

(Signature) _____
Name: Swaminathan Balakrishnan

Date: _____

(Signature) _____
Name: Junsung Lim

Date: _____

(Signature) _____
Name: Haitong Sun

Date: _____

(Signature) _____
Name: Johnson O. Sebeni

Date: _____

(Signature)  _____
Name: Faraz Faheem

Date: 01/13/20

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