

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5465997

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JONATHAN D. SHEAFFER	04/08/2019
JUHA O. MERIMAA	04/08/2019
JASON WUNG	04/08/2019
MARTIN E. JOHNSON	04/04/2019
PETER A. RAFFENSPERGER	04/04/2019
JOSHUA D. ATKINS	04/05/2019
SYMEON DELIKARIS MANIAS	04/03/2019
MEHREZ SOUDEN	04/02/2019
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:	16378438
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Email:	caitlin.reback@wbd-us.com
Correspondent Name:	WOMBLE BOND DICKINSON (US) LLP
Address Line 1:	P.O. BOX 7037
Address Line 4:	ATLANTA, GEORGIA 30357-0037
ATTORNEY DOCKET NUMBER:	204860P37459US1
NAME OF SUBMITTER:	FARZAD E. AMINI
SIGNATURE:	/farzad e amini/
DATE SIGNED:	04/09/2019

Total Attachments: 9

source=P37459US1_ASSIGNMENT_040819#page1.tif

source=P37459US1_ASSIGNMENT_040819#page2.tif

source=P37459US1_ASSIGNMENT_040819#page3.tif

source=P37459US1_ASSIGNMENT_040819#page4.tif

source=P37459US1_ASSIGNMENT_040819#page5.tif

source=P37459US1_ASSIGNMENT_040819#page6.tif

source=P37459US1_ASSIGNMENT_040819#page7.tif

source=P37459US1_ASSIGNMENT_040819#page8.tif

source=P37459US1_ASSIGNMENT_040819#page9.tif

ASSIGNMENT OF PATENT APPLICATION

Attorney Docket No.: 4860P37459US1

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, **Jonathan D. Sheaffer; Juha O. Merimaa; Jason Wung; Martin E. Johnson; Peter A. Raffensperger; Joshua D. Atkins; Symeon Delikaris Manias; Mehrez Souden**

hereby sell, assign, and transfer to **Apple Inc., a corporation of California**

having a principal place of business at **One Apple Park Way, Cupertino, California 95014, United States**

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

PROCESSING OF AUDIO SIGNALS FOR SPATIAL AUDIO

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number _____,

filed _____,

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

4860P37459US1

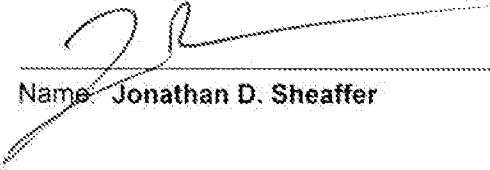
PATENT
REEL: 048836 FRAME: 0337

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

Each Inventor: Please Sign and Date Below:

4/8/2019

Date



Name: Jonathan D. Sheaffer

Date

Name: Juha O. Merimaa

Date

Name: Jason Wung

Date

Name: Martin E. Johnson

Date

Name: Peter A. Raffensperger

Date

Name: Joshua D. Atkins

Date

Name: Symeon Delikaris Manias

Date

Name: Mehrez Souden

Date

Name:

Date

Name:

Date

Name:

Date


Name:

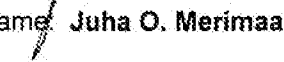
4860P37459US1

PATENT
REEL: 048836 FRAME: 0338

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

Each Inventor: Please Sign and Date Below:

Date: 4/8/19 Name: Jonathan D. Sheaffer


Date: _____ Name: Juha O. Merimaa


Date: _____ Name: Jason Wung

Date: _____ Name: Martin E. Johnson

Date: _____ Name: Peter A. Raffensperger

Date: _____ Name: Joshua D. Atkins

Date: _____ Name: Symeon Delikaris Manias

Date: _____ Name: Mehrez Souden

Date: _____ Name: _____

Date: _____ Name: _____

Date: _____ Name: _____

Date: _____ Name: _____

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

Each Inventor: Please Sign and Date Below:

Date

Name: **Jonathan D. Sheaffer**

Date

Name: **Juha O. Merimaa**

04/08/2019

Date


Name: **Jason Wung**

Date

Name: **Martin E. Johnson**

Date

Name: **Peter A. Raffensperger**

Date

Name: **Joshua D. Atkins**

Date

Name: **Symeon Delikaris Manias**

Date

Name: **Mehrez Souden**

Date

Name:

Date

Name:

Date

Name:

Date

Name:

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

Each Inventor: Please Sign and Date Below:

Date _____ Name: Jonathan D. Sheaffer

Date _____ Name: Juha O. Merimaa

Date _____ Name: Jason Wung

4th APRIL 2019 _____ 

Date _____ Name: Martin E. Johnson

Date _____ Name: Peter A. Raffensperger

Date _____ Name: Joshua D. Atkins

Date _____ Name: Symeon Delikaris Manias

Date _____ Name: Mehrez Souden

Date _____ Name:


Date _____ Name:

Date _____ Name:

Date _____ Name:

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

Each Inventor: Please Sign and Date Below:

_____	_____
Date	Name: Jonathan D. Sheaffer
_____	_____
Date	Name: Juha O. Merimaa
_____	_____
Date	Name: Jason Wung
_____	_____
Date	Name: Martin E. Johnson
4 Apr 2019	
Date	Name: Peter A. Raffensperger
_____	_____
Date	Name: Joshua D. Atkins
_____	_____
Date	Name: Symeon Delikaris Manias
_____	_____
Date	Name: Mehrez Souden
_____	_____
Date	Name:
_____	_____
Date	Name:
_____	_____
Date	Name:
_____	_____
Date	Name:

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

Each Inventor: Please Sign and Date Below:

Date Name: **Jonathan D. Sheaffer**

Date Name: **Juha O. Merimaa**

Date Name: **Jason Wung**

Date Name: **Martin E. Johnson**

Date Name: **Peter A. Raffensperger**

April 5, 2019

Date Name: 
Joshua D. Atkins

Date Name: **Symeon Delikaris Manias**

Date Name: **Mehrez Souden**

Date Name:

Date Name:

Date Name:

Date Name:

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

Each Inventor: Please Sign and Date Below:

Date Name: Jonathan D. Sheaffer

Date Name: Juha O. Merimaa

Date Name: Jason Wung

Date Name: Martin E. Johnson

Date Name: Peter A. Raffensperger

Date Name: Joshua D. Atkins

April 3, 2019

Date Name: Symeon Delikaris Manias

Date Name: Mehrez Souden

Date Name:

Date Name:

Date Name:

Date Name:

4860P37459US1

PATENT
REEL: 048836 FRAME: 0344

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

Each Inventor: Please Sign and Date Below:

Date Name: Jonathan D. Sheaffer

Date Name: Juha O. Merimaa

Date Name: Jason Wung

Date Name: Martin E. Johnson

Date Name: Peter A. Raffensperger

Date Name: Joshua D. Atkins

Date Name: Symeon Delikaris Manias

04/02/2013
Date Name: Mehrez Soudan

Date Name:

Date Name:

Date Name:

Date Name:

4860P37459US1