

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5383668

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	LIGHTHOUSE AI, INC.	12/14/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	APPLE INC.	
<b>Street Address:</b>	ONE APPLE PARK WAY	
<b>City:</b>	CUPERTINO	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	95014	
<b>PROPERTY NUMBERS Total: 9</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	14813907	
<b>Application Number:</b>	15069822	
<b>Application Number:</b>	15297644	
<b>Application Number:</b>	15132513	
<b>Application Number:</b>	15442290	
<b>Application Number:</b>	15445501	
<b>Application Number:</b>	15629385	
<b>Application Number:</b>	15628236	
<b>PCT Number:</b>	US2016044456	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(415)576-0300	
<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>		
<b>Phone:</b>	415-576-0200	
<b>Email:</b>	pcaldwell@kilpatricktownsend.com	
<b>Correspondent Name:</b>	KILPATRICK TOWNSEND & STOCKTON LLP/APPLE	
<b>Address Line 1:</b>	1100 PEACHTREE STREET	
<b>Address Line 2:</b>	MAILSTOP: IP DOCKETING 22	
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30309	
<b>ATTORNEY DOCKET NUMBER:</b>	090911-1127142	
<b>NAME OF SUBMITTER:</b>	PATRICIA CALDWELL	

PATENT

<b>SIGNATURE:</b>	/Patricia Caldwell/
<b>DATE SIGNED:</b>	02/20/2019
<b>Total Attachments: 10</b> source=Bulk Assignment#page1.tif source=Bulk Assignment#page2.tif source=Bulk Assignment#page3.tif source=Bulk Assignment#page4.tif source=Bulk Assignment#page5.tif source=Bulk Assignment#page6.tif source=Bulk Assignment#page7.tif source=Bulk Assignment#page8.tif source=Bulk Assignment#page9.tif source=Bulk Assignment#page10.tif	

ASSIGNMENT

This Assignment (hereinafter this "Assignment") is made with effect as of December 14, 2018, by Lighthouse AI, Inc., a corporation duly organized under the laws of Delaware and having an address at 380 Portage Avenue, Palo Alto, California 94306 (hereinafter the "Assignor");

WHEREAS, in this Assignment "Patents" means any domestic or foreign patents, utility models, and applications, disclosures and drafts relating thereto (and any patents or utility models that issue as a result of those applications and disclosures), and any reissues, divisions, divisionals, continuations, continuation-in-parts, provisionals, renewals, extensions, substitutions, re-examinations, or invention registrations related to such patents, utility models and applications;

WHEREAS, the Assignor is the owner of all of the worldwide rights, title and interest in and to the patents and patent applications set forth on Schedule A hereto (hereinafter the "Listed Patents and Applications"); and

WHEREAS, Apple Inc., a corporation duly organized under and pursuant to the laws of the State of California, and having a principal place of business at One Apple Park Way, Cupertino, California 95014 (hereinafter the "Assignee"), is desirous of acquiring the entire worldwide right, title and interest in and to said Listed Patents and Applications and the Assigned Patents and Applications (as defined below).

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged:

1. The Assignor has sold, assigned, transferred and conveyed, and by this Assignment does hereby sell, assign, transfer and convey, unto said Assignee, its successors, legal representatives and assigns, the Assignor's entire worldwide right, title and interest in and to all of the following (to have and hold forever, free and clear of all liens, restrictions or encumbrances): (a) the above-mentioned Listed Patents and Applications; (b) Patents filed from, or claiming priority from or common priority with, the Listed Patents and Applications, including, but not limited to, reissues, divisions, divisionals, continuations, continuation-in-parts, provisionals, renewals, extensions, substitutions, re-examinations, or invention registrations; (c) Patents which issue from the Patents specified in any of (a) to (b); and (d) renewals, revalidations, reissues, re-examinations, substitutions, revisions, confirmations, additions and extensions of any of the Patents specified in any of (a) to (c), along with all rights to sue (and to recover and retain damages and other remedies) in respect of any past (including, but not limited to, prior to the date hereof), present and future infringement, violation, misappropriation, misuse or unauthorised use of any of the foregoing (a) to (d) (collectively, the "Assigned Patents and Applications"); together with all rights under international treaties relating to intellectual property, including, but not limited to, the Paris Convention for the Protection of Industrial Property and the Patent Cooperation Treaty, and to claim all rights of priority resulting from the filing of any of the foregoing or any future Patents based on the foregoing; all of the foregoing to be held and enjoyed by said Assignee, for its own use and behalf and the use and behalf of its

successors, legal representatives and assigns, to the full end of the term or terms of any and all Assigned Patents and Applications for which patents may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignor, had this sale and assignment not been made. To the extent that Schedule A hereto contains any typographical or administrative error but it is clear which Patent was intended to be included in the sale, assignment, transfer and conveyance under this Assignment, the Assignor and the Assignee each acknowledge and agree that the intended Patent is hereby sold, assigned, transferred and conveyed, along with all other rights, privileges and claims enumerated above with respect to such intended Patent. Assignor, on behalf of itself, each of its current and future affiliates and any successors and assigns of any of the foregoing, agrees not to make any claim or argument in contravention of any of the foregoing.

2. Assignor shall, and shall cause its affiliates to, (a) execute, acknowledge and deliver all such further conveyances, notices, assumptions, releases and acquittances and such other instruments (including, but not limited, for recordation with the appropriate governmental authorities), and take such further actions, as may be necessary or appropriate to assign fully to Assignee and its successors and assigns, all of the properties, rights, titles, interests, estates, remedies, powers and privileges intended to be conveyed to Assignee under this Assignment, and (b) assist Assignee in connection with the prosecution, maintenance and/or enforcement of any Assigned Patents and Applications as requested by Assignee. If Assignee is unable for any reason to secure Assignor's or its affiliates or their respective successors' or assigns' signature to any document it is entitled to under this Assignment, Assignor and its affiliates hereby irrevocably designates and appoints Assignee, and Assignee's duly authorized officers, agents and representatives, as its agents and attorneys-in-fact, coupled with an interest, with full power of substitution to act for and on the behalf and instead of Assignor, to execute and file any such document or documents and to do all other lawfully permitted acts to further the purposes of this Assignment with the same legal force and effect as if executed by Assignor. Assignor and its affiliates shall not enter into any agreement in conflict with this Assignment.

3. The Assignor hereby authorizes the Commissioner of Patents and Trademarks in the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable foreign countries or multinational authorities, to record the Assignee as the assignee and owner of the Assigned Patents and Applications and to deliver to the Assignee, and to the Assignee's attorneys, agents, successors or assigns, all official documents and communications as may be warranted by this Assignment.

4. This Assignment will be governed by and construed in accordance with the laws of the State of California, excluding that body of California law concerning conflicts of law. The parties further submit to and waive any objections to the exclusive jurisdiction of and venue in any of the following forums: U.S. District Court for the Northern District of California, California Superior Court for Santa Clara County, or any other forum in Santa Clara County, for any litigation arising out of this Assignment.

5. If any term or other provision of this Assignment is determined by a court of competent jurisdiction to be invalid, illegal, or incapable of being enforced by any rule of law or public policy, all other terms, provisions and conditions of this Assignment shall nevertheless

remain in full force and effect and shall in no way be affected, impaired or invalidated. Upon such determination that any term or other provision is invalid, illegal, or incapable of being enforced, the parties shall negotiate in good faith to modify this Assignment so as to effect the original intent of the parties as closely as possible to the fullest extent permitted by applicable law in an acceptable manner to the end that this Assignment is fulfilled to the greatest extent possible.

6. This Assignment may be executed in multiple counterparts, each of which will be deemed to be an original copy of this Assignment and all of which, when taken together, will be deemed to constitute one and the same agreement. The exchange of a fully executed Assignment (in counterparts or otherwise) by electronic transmission in .PDF format or by facsimile shall be sufficient to bind the parties to the terms and conditions of this Assignment.

IN TESTIMONY WHEREOF,

Lighthouse AI, Inc.

By: *[Signature]*

Name: Alex Teichman

Title: CEO

Date: Dec 14, 2018

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA

COUNTY OF Santa Clara

)  
) ss.  
)

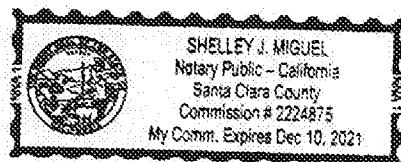
On December 14, 2018 before me, Shelley J. Miguel, Notary Public,

personally appeared Alex Teichman

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

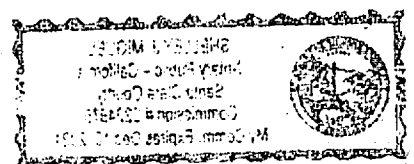
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing is true and correct.

WITNESS my hand and official seal.



Place Notary Seal Above

*Shelley J. Miguel*  
Signature of Notary Public



IN TESTIMONY WHEREOF,

Apple Inc.

By: *JM*

Name: Jeffrey Myers

Title: Chief IP Counsel

Date: 12-20-2018

A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

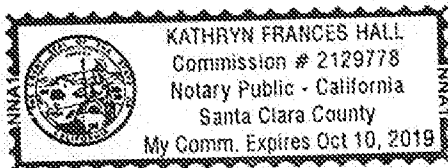
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

STATE OF CALIFORNIA

COUNTY OF Santa Clara

)  
) ss.  
)

On Dec. 20, 2018 before me, Kathryn Frances Hall, Notary Public,  
personally appeared Jeffrey L. Myers



Place Notary Seal Above

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing is true and correct.

WITNESS my hand and official seal.

Kathryn Frances Hall  
Signature of Notary Public



# **SCHEDULE "A" to Assignment**

Country	Application No.	Filing Date	Publication No.	Publication Date	Patent Number	Patent Date	Title
US	14/813,907	30-Jul-15			9396400	Jul 19, 2016	Computer-Vision Based Security System Using A Depth Camera
US	15/069,822	Mar 14, 2016	US 2017-0032192 A1	2-Feb-17			Computer-Vision Based Security System Using A Depth Camera
WO	PCT/US2016/044456	Jul 28, 2016	WO 2017/019857	2-Feb-17			Computer-Vision Based Security System Using A Depth Camera
EP	16831346.8	28-Jul-16					Computer-Vision Based Security System Using A Depth Camera
CN	201680051649.3	28-Jul-16	CN 108027874 A	11-May-18			Computer-Vision Based Security System Using A Depth Camera
US	15/297,644	19-Oct-16	US 2017-0039455 A1	9-Feb-17			Computer-Vision Based

Country	Application No.	Filing Date	Publication No.	Publication Date	Patent Number	Patent Date	Title
US	15/132,513	Apr 19, 2016	US 2017-0300685 A1	19-Oct-17	9965612	May 8, 2018	Security System Using A Depth Camera
US	15/442,290	Feb 24, 2017			10009554	Jun 26, 2018	Method And System For Using Light Emissions By A Depth-Sensing Camera To Capture Video Images Under Low-Light Conditions
EP	18158457.4	Feb 23, 2018			EP3367661	29-Aug-18	Method And System For Using Light Emissions By A Depth-Sensing Camera To Capture Video Images Under Low-Light Conditions
CN	201810156902.2	Feb 24, 2018	CN 108513078 A	7-Sep-18			Method And System For Using Light

Country	Application No.	Filing Date	Publication No.	Publication Date	Patent Number	Patent Date	Title
							Emissions By A Depth-Sensing Camera To Capture Video Images Under Low-Light Conditions
US	29/595,085	Feb 24, 2017					Camera
CN	201730393292.4	Aug 24, 2017	CN 304683878 S		ZL 201730393292.4	June 15, 2018	Camera
CN	201730393294.3	Aug 24, 2017	CN 304683879 S		ZL 201730393294.3	June 15, 2018	Camera
US	15/445,501	Feb 28, 2017	US-2018-0246964-A1	30-Aug-18			Speech Interface For Vision-Based Monitoring System
CN	201810168053.2	Feb 28, 2018	CN 108509502 A	7-Sep-18			Speech Interface For Vision-Based Monitoring System
US	15/629,385	21-Jun-17					Method And System For Incident Sharing In A Monitoring System
US	15/628,236	20-Jun-17					Two-Way Communication

Country	Application No.	Filing Date	Publication No.	Publication Date	Patent Number	Patent Date	Title
							Interface For Vision-Based Monitoring System

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REEL: 048383 FRAME: 0512

RECORDED: 02/20/2019