505783987 11/20/2019 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5830815

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ				
		Name	Execution Date		
DARYA AMIN-SHAHIDI			09/26/2019		
ALEX M. LEE			09/19/2019		
DENIS G. CHEN			09/26/2019		
ALEX J. LEHMANN			09/19/2019		
ALEX J. SPELTZ			09/20/2019		
ETIENNE MARECAL			11/19/2019		
RECEIVING PARTY DA	ТА				
Name:	APPLE	INC.			
Street Address:	ONE A	ONE APPLE PARK WAY			
City:	CUPEF	CUPERTINO			
State/Country:	CALIFO	DRNIA			
Postal Code:	95014				
PROPERTY NUMBERS	Total: 1	Number			
Property Type		Number 16584443			
Property Type Application Number:					
Property Type Application Number: CORRESPONDENCE D	ATA				
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i>	ATA e sent to	16584443			
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i>	ATA e sent to provideo	16584443 (303)223-8080 o the e-mail address first; if that is u			
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be using a fax number, if p</i> Phone: Email:	ATA e sent to provideo	16584443 (303)223-8080 b the e-mail address first; if that is u i; if that is unsuccessful, it will be s 303-223-1318 vbrown@bhfs.com			
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Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	ATA e sent to provideo	16584443 (303)223-8080 b the e-mail address first; if that is u d; if that is unsuccessful, it will be s 303-223-1318 vbrown@bhfs.com S. CRAIG HEMENWAY 410 SEVENTEENTH STREET SUITE 2200 DENVER, COLORADO 80202			
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Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET NUNAME OF SUBMITTER:	ATA e sent to provideo	16584443 (303)223-8080 o the e-mail address first; if that is unsuccessful, it will be s 303-223-1318 vbrown@bhfs.com S. CRAIG HEMENWAY 410 SEVENTEENTH STREET SUITE 2200 DENVER, COLORADO 80202 P43472US1 VALERIE H. BROWN			
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	ATA e sent to provideo	16584443 (303)223-8080 b the e-mail address first; if that is u d; if that is unsuccessful, it will be s 303-223-1318 vbrown@bhfs.com S. CRAIG HEMENWAY 410 SEVENTEENTH STREET SUITE 2200 DENVER, COLORADO 80202 P43472US1			

Total Attachments: 7	
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ASSIGNMENT

WHEREAS, we, Darya Amin-Shahidi, Alex M. Lee, Denis G. Chen, Alex J. Lehmann, Alex J. Speltz, and Etienne Marecal (hereinafter, individually and collectively, the "Assignor"), have invented certain new and useful systems, devices, and methods disclosed and described in a utility application for Letters Patent in the United States ("U.S."), titled "Reluctance Haptic Engine for an Electronic Device," which can be identified in the United States Patent and Trademark Office ("USPTO") by Application No. <u>16/584,443</u>, filed on <u>September 26, 2019</u>, with attorney docket no. P43472US1 (the "Utility Application"); and

WHEREAS, Assignor desires to assign any and all right, title and interest to said Utility Application, and any provisional, non-provisional, continuation, continuation-in-part, divisional, international, foreign, regional and convention applications corresponding thereto, and any and all Letters Patent of the United States and countries and regions foreign thereto which may grant or have granted thereto or be lodged in relation thereto, any reissue or reexamination thereof or to be obtained therefor, any renewals, or substitutes thereof, and any and all priority rights or priority claims, International Convention rights, any and all rights to collect past damages for infringement of any and all Letters Patent of the United States and countries and regions foreign thereto which may be published, which may grant, or have granted thereto or be lodged in relation thereto, and other benefits accruing to or to accrue to Assignor with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto (the "Patent Rights");

WHEREAS, Apple Inc., a corporation organized and existing under the laws of the State of California, and having its principal place of business at One Apple Park Way, Cupertino, California 95014 (the "Assignee"), desires to acquire any and all, right, title, and interest of Assignor in and to the invention(s), the Patent Rights, and in, to, and under any and all Letters Patent to be obtained therefor;

NOW THEREFORE, for the sum of \$1.00 and other good and valuable consideration to Assignor in hand paid, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transfer and by these presents does hereby sell, assign and transfer to the said Assignee, and said Assignee's legal representatives, successors and assigns, any and all of the entire right, title and interest in and to the invention(s), Patent Rights, and any and all Letters Patent to be obtained therefor;

UPON SAID CONSIDERATION, the Assignor hereby covenants and agrees with the said Assignee that it will not execute any writing or do any act whatsoever conflicting with these presents, and that it will, at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, provisionals, non-provisionals, continuations, continuations-in-part, continuing prosecutions, divisionals, renewals, reissues, reexamined or extended Letters Patent of the United States, or of any and all foreign countries, on said Patent Rights, and execute confirmatory assignments or acknowledgments of this assignment as necessary for full enjoyment of the Patent Rights and for recording in foreign patent offices, and in enforcing any rights or choses in action accruing as a result of such Patent Rights, by giving testimony in any proceedings or transactions involving such Patent Rights, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and

	Attorney Do	cket No. P43472US
agre part	ement shall bind, and inure to the benefit of, the assigns and legal repri- ies;	esentatives of both
4140	UPON SAID CONSIDERATION, Assignor represents and warrants it right, title, and authority to execute this Assignment and to convey any a rest in the Patent Rights, and that Assignor has not conveyed nor will co of the Patent Rights to a third party;	بمرجع والأناء المتأمر المراجع أراجع
date	ASSIGNOR HEREBY AUTHORIZES said Assignee, its successors, one it may properly designate, to apply for Letters Patent in the U.S. and ntries and regions, in its own name if desired, and additionally to claim p of the Utility Application and otherwise take advantage of the provision ventions.	any and all foreign
may of th	ASSIGNOR HEREBY AUTHORIZES Assignee, its successors and a properly designate, to insert in this instrument the application number, the Utility Application once known.	ssigns, or anyone it iling date, and title
the c	IN WITNESS WHEREOF, the Assignor hereunto has executed this date indicated below.	ssignment upon
Date	x 09,261 2019 By:	Second Street
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	IN WITNESS WHEREOF, the Assignor hereunto has executed this A late indicated below.	
	IN WITNESS WHEREOF, the Assignor hereunto has executed this A fate indicated below. E By: Alex M. Lee	Issignment upon
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agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties;

UPON SAID CONSIDERATION, Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party;

ASSIGNOR HEREBY AUTHORIZES said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries and regions, in its own name if desired, and additionally to claim priority to the filing date of the Utility Application and otherwise take advantage of the provisions of any international conventions.

ASSIGNOR HEREBY AUTHORIZES Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the application number, filing date, and title of the Utility Application once known.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date:

By:_____ Darya Amin-Shahidi

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date: 9/19/ 2019

By:

Alex M. Lee

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date: _____

By:

Denis G. Chen

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date:

By:_____

Alex J. Lehmann

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

2 of 3

Date

By:_____

Alex J. Speltz

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By:_____ Alex J. Lehmann

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By:_____ Alex J. Speltz

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Date:

By:______ Alex M. Lee

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date:

By:_____ Denis G. Chen

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date: <u>9/19/19</u>

By: Clar Zer

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date:

By:_____ Alex J. Speltz

2 of 3

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By: Darya Amin-Shahidi

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By:_____ Alex M. Lee

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By:_____ Denis G. Chen

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Date: _____

By:_____ Alex J. Lehmann

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date: 9/20/19

Mux Gras

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date: 19/11/2019

É By:, Elienne Marecal

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3 of 3

PATENT REEL: 051067 FRAME: 0915

RECORDED: 11/20/2019