

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT5607823

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
PAUL X. WANG	06/02/2019
NICOLAI GEORG	04/17/2019
BENJAMIN R. BLACHNITZKY	04/17/2019
ALHAD A. PALKAR	04/08/2019
MINHAZUL ISLAM	06/21/2019
ALEX J. LEHMANN	04/22/2019
MADELEINE S. CORDIER	05/02/2019
JOON-SUP HAN	04/03/2019
HONGCHENG SUN	06/25/2019
SANG E. LEE	04/19/2019
KEVIN Z. LO	05/02/2019
LILLI ING-MARIE JONSSON	04/22/2019
LUIS DELIZ CENTENO	04/22/2019
YUHAO PAN	04/07/2019
STEPHEN E. DEY	04/03/2019
PAUL N. DUMONTELLE	04/17/2019
JONATHAN C. ATLER	04/11/2019
TIANJIA SUN	06/25/2019
JIAN LI	04/08/2019

**RECEIVING PARTY DATA**

<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

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	16395806

**CORRESPONDENCE DATA****Fax Number:**

*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.*

**Email:** esemo@treyzlawgroup.com  
**Correspondent Name:** G. VICTOR TREYZ  
**Address Line 1:** 15279 N. SCOTTSDALE RD.  
**Address Line 2:** SUITE 250  
**Address Line 4:** SCOTTSDALE, ARIZONA 85254

<b>ATTORNEY DOCKET NUMBER:</b>	P37943US1
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<b>NAME OF SUBMITTER:</b>	EMMA SEMO
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<b>SIGNATURE:</b>	/Emma Semo/
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<b>DATE SIGNED:</b>	07/08/2019
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**Total Attachments: 21**

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A S S I G N M E N T

WHEREAS, We, Paul X. Wang, Nicolai Georg, Benjamin R. Blachnitzky, Alhad A. Palkar, Minhazul Islam, Alex J. Lehmann, Madeleine S. Cordier, Joon-Sup Han, Hongcheng Sun, Sang E. Lee, Kevin Z. Lo, Lilli Ing-Marie Jonsson, Luis Deliz Centeno, Xi Sun, Yuhao Pan, Stephen E. Dey, Paul N. DuMontelle, and Jonathan C. Adler, residing respectively in Cupertino, California, Sunnyvale, California, San Francisco, California, San Jose, California, Cupertino, California, Sunnyvale, California, San Francisco, California, Sunnyvale, California, San Ramon, California, Sunnyvale, California, Belmont, California, Saratoga, California, Oakland, California, Shanghai, China, Sunnyvale, California, San Francisco, California, Mountain View, California, and Cupertino, California, have made an invention entitled:

## COMPUTER SYSTEMS WITH FINGER DEVICES

and

(1) are about to make an application for United States Letters Patent therefor, the same having been executed by us on even date herewith

OR

(2) have made an application for United States Letters Patent therefor, the same having been filed on (\_\_\_\_\_) under Application No. (\_\_\_\_\_), in connection with which we hereby authorize and request the assignee's attorneys associated with Customer Number 65015

**P37943US1**

to insert within the foregoing parentheses the filing date and Application No. of said application when known; and

WHEREAS, APPLE INC., a corporation organized and existing under the laws of the State of California and having an address of One Apple Park Way, Cupertino, California 95014, is desirous of acquiring the entire interest in said invention, said United States patent application and in any Letters Patent which may issue thereon;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto the said APPLE INC., its successors, assigns and legal representatives, all right, title and interest in and to said invention and any improvements thereon for all countries of the world, and in and to said United States patent application, including any continuations, continuations-in-part and divisions thereof, and any substitute applications therefor, and including the right to claim priority under the International Convention based on said patent application, and any patent which may issue thereon, and any reissues of the same; and all right, title and interest in and to every patent application filed or to be filed on said invention in any other country, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any and all patents which may issue thereon, and any reissues and extensions of the same;



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and we further authorize and request immediate  
admission to issue and issue the same all claims in said  
application as the said application, as the assignor of the  
said patent therein, and we further agree to execute  
such instrument of the nature and effect as may be required  
by the Commissioner and proper to carry out  
the provisions of said application, inasmuch as the nature of  
the said application does not affect the assignment  
the rights of the assignor under this agreement.

IN WITNESS WHEREOF, we have hereunto signed our  
hands at the City of New York, this 1st day of

\_\_\_\_\_  
Date  
*10/12/18*  
Date

\_\_\_\_\_  
Paul S. Kelly  
*[Signature]*

\_\_\_\_\_  
Date

\_\_\_\_\_  
William S. [unclear]

\_\_\_\_\_  
Date

\_\_\_\_\_  
Arthur S. [unclear]

\_\_\_\_\_  
Date

\_\_\_\_\_  
Margaret [unclear]

\_\_\_\_\_  
Date

\_\_\_\_\_  
Alice J. [unclear]

\_\_\_\_\_  
Date

\_\_\_\_\_  
Margaret S. [unclear]

and we hereby authorize and request competent authorities to grant and issue any and all patents on said invention to the said APPLE INC. as the assignee of the entire interest therein; and we further agree to execute upon request of the assignee such additional documents, if any, as are necessary and proper to secure patent protection on said invention throughout all countries of the world, and to otherwise give full effect to and perfect the rights of the assignee under this Assignment.

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Paul X. Wang

\_\_\_\_\_  
Date

\_\_\_\_\_  
Nicolai Georg

04/17/19

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Benjamin R. Blachnitzky

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Date

\_\_\_\_\_  
Alhad A. Palkar

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Date

\_\_\_\_\_  
Minhazul Islam

\_\_\_\_\_  
Date


\_\_\_\_\_  
Alex J. Lehmann

\_\_\_\_\_  
Date

\_\_\_\_\_  
Madeleine S. Cordier

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IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

_____ Date	_____ Paul X. Wang
_____ Date	_____ Nicolai Georg
_____ Date	_____ Benjamin R. Blachnitzky
04/08/2019 _____ Date	 _____ Alhad A. Falker
_____ Date	_____ Minhazul Islam
_____ Date	_____ Alex J. Lehmann
_____ Date	_____ Madeleine S. Cordier



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Date

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Benjamin R. Blachnitzky

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Alhad A. Palkar

06/21/2019  
\_\_\_\_\_  
Date

  
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Minhazul Islam

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_____	_____
Date	Paul X. Wang
_____	_____
Date	Nicolai Georg
_____	_____
Date	Benjamin R. Blachnitzky
_____	_____
Date	Alhad A. Palkar
_____	_____
Date	Minhazul Islam
4/22/19	
Date	Alex J. Lehmann
_____	_____
Date	Madeleine S. Cordier

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Date

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Benjamin R. Blachnitzky

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Date


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Alhad A. Palkar

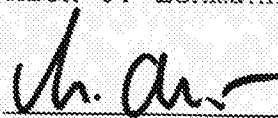
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Minhazul Islam

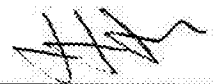
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Alex J. Lehmann

 05/02/2019  
Date

  
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Madeleine S. Cordier

April 3, 2019  
Date

  
Joon-Sup Han

Date

Hongcheng Sun

Date

Sang E. Lee

Date

Kevin Z. Lo

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Ing-Marie Jonsson

Date

Luis Deliz Centeno

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Xi Sun

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Yuhao Pan

Date

Stephen E. Dey

Date

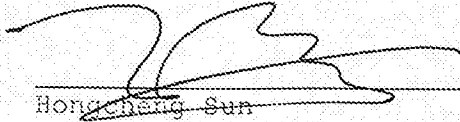
Paul N. DuMontelle

Date

Jonathan C. Adler

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Date  
6/25/2019  
Date

Joon-Sup Han  
  
Hongcheng Sun

Date

Sang E. Lee

Date

Kevin Z. Lo

Date

Lilli Ing-Marie Jonsson

Date

Luis Deliz Centeno

Date

Ki Sun

Date

Yuhao Pan

Date

Stephen E. Dey

Date

Paul N. DuMontelle

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Jonathan C. Adler

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Hongcheng Sun

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Kevin Z. Lo

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Ing-Marie Jonsson

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Luis Deliz Centeno

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Xi Sun

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Hongcheng Sun

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5/2/2019  
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Ing-Marie Jonsson

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Date

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Paul N. DuMontelle

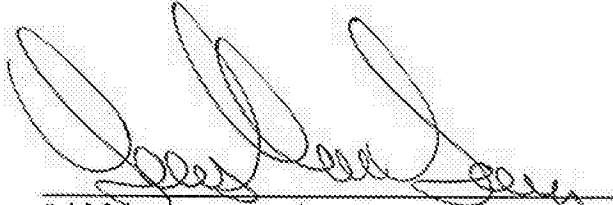
\_\_\_\_\_  
Date

\_\_\_\_\_  
Jonathan C. Adler


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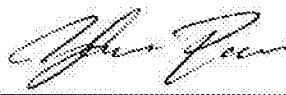
IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

April 22, 2019  
Date

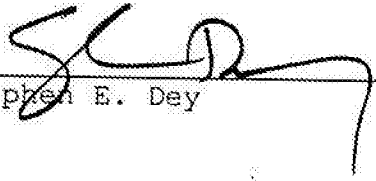
  
Lilli Ing-Marie Jonsson



Date	Joon-Sup Han
Date	Hongcheng Sun
Date	Sang E. Lee
Date	Kevin Z. Lo
Date	Ing-Marie Jonsson
04/22/2019 Date	 Luis Deliz Centeno
Date	Xi Sun
Date	Yuhao Pan
Date	Stephen E. Dey
Date	Paul N. DuMontelle
Date	Jonathan C. Adler

Date	Joon-Sup Han
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Date	Kevin Z. Lo
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Yuhao Fan

Date

Stephen B. Dey


4/17/19

Date

  
Paul W. DuMontelle

Date

Jonathan C. Adler

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Date	Ing-Marie Jonsson
Date	Luis Deliz Centeno
Date	Xi Sun
Date	Yuhao Pan
Date	Stephen E. Dey
Date	Paul N. DuMontelle
04/11/2019 Date	 Jonathan C. Adler

IN TESTIMONY WHEREOF, I have hereunto signed our names on the dates indicated hereinafter.

06-25-2019  
Date

Tianjia Sun  
Tianjia Sun

P37943US1

IN TESTIMONY WHEREOF, I have hereunto signed our names on the dates indicated hereinafter.

April 8th, 2019  
Date

  
Jian Li