

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3613606

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SINAN FILIZ	12/18/2014
JAMES E. PEDDER	12/15/2014
CHARLEY T. OGATA	01/12/2015
JOHN STEPHEN SMITH	01/05/2015
DHAVAL CHANDRAKANT PATEL	04/03/2015
SHIN JOHN CHOI	03/18/2015
BRIAN Q. HUPPI	12/16/2014
CHRISTOPHER J. BUTLER	04/07/2015
RECEIVING PARTY DATA	
Name:	APPLE INC.
Street Address:	ONE INFINITE LOOP
City:	CUPERTINO
State/Country:	CALIFORNIA
Postal Code:	95014
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14729172
CORRESPONDENCE DATA	
Fax Number:	(303)223-1111
<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:	303-223-1100
Email:	vbrown@bhfs.com
Correspondent Name:	VALERIE H. BROWN
Address Line 1:	410 SEVENTEENTH STREET
Address Line 2:	SUITE 2200
Address Line 4:	DENVER, COLORADO 80202
ATTORNEY DOCKET NUMBER:	P21650USC1
NAME OF SUBMITTER:	VALERIE H. BROWN
SIGNATURE:	/Valerie H. Brown/

PATENT

DATE SIGNED:	11/12/2015
Total Attachments: 10 source=P21650 Executed Assignment#page1.tif source=P21650 Executed Assignment#page2.tif source=P21650 Executed Assignment#page3.tif source=P21650 Executed Assignment#page4.tif source=P21650 Executed Assignment#page5.tif source=P21650 Executed Assignment#page6.tif source=P21650 Executed Assignment#page7.tif source=P21650 Executed Assignment#page8.tif source=P21650 Executed Assignment#page9.tif source=P21650 Executed Assignment#page10.tif	

ASSIGNMENT

WHEREAS, we, Sinan Filiz, whose address is One Infinite Loop, MS: 83-T, Cupertino, California 95014; James E. Pedder, whose address is One Infinite Loop, MS: 306-4PD, Cupertino, California 95014; Charley T. Ogata, whose address is One Infinite Loop, MS: 83-T, Cupertino, California 95014; John Stephen Smith, whose address is One Infinite Loop, MS: 83-T, Cupertino, California 95014; Dhaval Chandrakant Patel, whose address is One Infinite Loop, MS: 83-I, Cupertino, California 95014; Shin John Choi, whose address is One Infinite Loop, MS: 83-T, Cupertino, California 95014; Brian Q. Huppi, whose address is One Infinite Loop, MS: 83-T, Cupertino, California 95014; and Christopher J. Butler, whose address is One Infinite Loop, MS: 83-T, Cupertino, California 95014 (hereinafter, individually and collectively the "Assignor"), have invented certain new and useful systems, devices, and methods disclosed and described in:

a provisional application titled "Force Sensor Using a Transparent Force Sensitive Film," which can be identified in the United States Patent and Trademark Office ("USPTO") by Application No. 61/926,905, filed on January 13, 2014, with attorney docket no. P21650USP1;

a provisional application titled "Temperature Compensating Transparent Force Sensor," which can be identified in the United States Patent and Trademark Office ("USPTO") by Application No. 61/937,465, filed on February 7, 2014, with attorney docket no. P21650USP2;

a provisional application titled "Temperature Compensating Transparent Force Sensor," which can be identified in the United States Patent and Trademark Office ("USPTO") by Application No. 61/939,257, filed on February 12, 2014, with attorney docket no. P21650USP3;

a provisional application titled "Multi-Layer Temperature Compensating Transparent Force Sensor," which can be identified in the United States Patent and Trademark Office ("USPTO") by Application No. 61/942,021, filed on February 19, 2014, with attorney docket no. P21650USP4; and

a provisional application titled "Strain-Based Transparent Force Sensor," which can be identified in the United States Patent and Trademark Office ("USPTO") by Application No. 62/024,566, filed on July 15, 2014, with attorney docket no. P21650USP5 (the "Provisional Applications");

and further disclosed and described in:

a utility application for Letters Patent in the United States ("U.S."), titled "Temperature Compensating Transparent Force Sensor," which can be identified in the USPTO by Application No. 14/594,779, filed on January 12, 2015, with attorney docket no. P21650US1;

a utility application for Letters Patent in the United States ("U.S."), titled "Temperature Compensating Transparent Force Sensor Having a Compliant Layer," which can be identified in the USPTO by Application No. 14/594,835, filed on January 12, 2015, with attorney docket no. P21650US2; and

a utility application for Letters Patent in the United States ("U.S."), titled "Temperature Compensating Transparent Force Sensor Having a Flexible Substrate," which can be identified

in the USPTO by Application No. 14/594,857, filed on January 12, 2015,
with attorney docket no. P21650US3 (the "Utility Applications");

and further disclosed and described in:

an International Application titled "Temperature Compensating Transparent Force Sensor," which can be identified as PCT Application No. PCT/US15/010969, filed on January 12, 2015, with attorney docket no. P21650WO1;

an International Application titled "Temperature Compensating Transparent Force Sensor Having a Compliant Layer," which can be identified as PCT Application No. _____, filed on _____, with attorney docket no. P21650WO2; and

an International Application titled "Temperature Compensating Transparent Force Sensor Having a Flexible Substrate," which can be identified as PCT Application No. _____, filed on _____, with attorney docket no. P21650WO3 (the "International Applications");

WHEREAS, Assignor desires to assign any and all right, title and interest to said Provisional and Utility Applications, 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 Infinite Loop, 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 agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties;

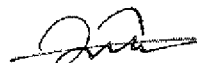
UPON SAID CONSIDERATION, Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights 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 Provisional and Utility Applications 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: 12/18/2014

By: 
Sinan Filiz

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

Date: _____

By: _____
James E. Pedder

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

Date: _____

By: _____
Charley T. Ogata

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 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 Provisional and Utility Applications and otherwise take advantage of the provisions of any international conventions.

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Sinan Filiz

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James E. Pedder

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By: _____
Charley T. Ogata

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 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 Provisional and Utility Applications 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.

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Date: _____

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Sinan Filiz

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Date: _____

By: _____
James E. Pedder

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

Date: 1/12/2015

By:  _____
Charley T. Ogata

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

Date: 1/5/2005

By: 
John Stephen Smith

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

Date: _____

By: _____
Dhaval Chandrakant Patel

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

Date: _____

By: _____
Shin John Choi

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

Date: _____

By: _____
Brian Q. Huppi

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Date: _____

By: _____
Christopher J. Butler

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

Date: _____

By: _____
John Stephen Smith

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

Date: 4/3/2015

By:  _____
Dhaval Chandrakant Patel

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

Date: _____

By: _____
Shin John Choi

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

Date: _____

By: _____
Brian Q. Huppi

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Date: _____

By: _____
Christopher J. Butler

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Date: _____

By: _____
John Stephen Smith


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

Date: _____

By: _____
Dhaval Chandrakant Patel

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

Date: 3/18/2015

By:  _____
Shin John Choi

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

Date: _____

By: _____
Brian Q. Huppi

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Date: _____

By: _____
Christopher J. Butler

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Date: _____

By: _____
John Stephen Smith

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Date: _____

By: _____
Dhaval Chandrakant Patel

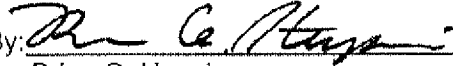
IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.

Date: _____

By: _____
Shin John Choi

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

Date: 12/16/2014

By: 
Brian Q. Huppi

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Date: _____

By: _____
Christopher J. Butler

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Shin John Choi

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Date: _____

By: _____
Brian Q. Huppi

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

Date: 4/7/15

By:  _____
Christopher J. Butler