08/27/2015 503456237

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3502862

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AMAURY J. HERESZTYN	01/16/2015
KEITH COX	01/14/2015
ERIC S. JOL	08/26/2015
JEFFREY M. ALVES	12/14/2014
JIM C. HWANG	05/08/2015
JEFFREY J. TERLIZZI	12/11/2014
JOHN M. ANANNY	05/01/2015
NAGARAJAN KALYANASUNDARAM	12/05/2014
ROBERT S. PARNELL	04/09/2015
STEVEN G. HERBST	12/09/2014
TODD K. MOYER	01/12/2015
ALBERT J. GOLKO	08/26/2015
FRANK LIANG	04/09/2015

RECEIVING PARTY DATA

Name:	APPLE INC.	
Street Address:	ONE INFINITE LOOP	
City:	CUPERTINO	
State/Country:	CALIFORNIA	
Postal Code:	95014	

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	14837965
Application Number:	62043162

CORRESPONDENCE DATA

Fax Number: (303)223-1111

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.

Phone: 303-223-1100 vbrown@bhfs.com Email:

PATENT REEL: 036442 FRAME: 0659 503456237

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:	P23131US1
NAME OF SUBMITTER:	VALERIE H. BROWN
SIGNATURE:	/Valerie H. Brown/
DATE SIGNED:	08/27/2015

Total Attachments: 14

source=P23131US1 Executed Assignment#page1.tif source=P23131US1 Executed Assignment#page2.tif source=P23131US1 Executed Assignment#page3.tif source=P23131US1 Executed Assignment#page4.tif source=P23131US1 Executed Assignment#page5.tif source=P23131US1 Executed Assignment#page6.tif source=P23131US1 Executed Assignment#page7.tif source=P23131US1 Executed Assignment#page8.tif source=P23131US1 Executed Assignment#page9.tif source=P23131US1 Executed Assignment#page10.tif source=P23131US1 Executed Assignment#page10.tif source=P23131US1 Executed Assignment#page11.tif

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PATENT REEL: 036442 FRAME: 0660

<u>ASSIGNMENT</u>

WHEREAS, we, Amaury J. Heresztyn, whose address is One Infinite Loop, MS: 306-3PD, Cupertino, California 95014; Keith Cox, whose address is One Infinite Loop, MS: 74-3PA. Cupertino, California 95014; Eric S. Jol, whose address is One Infinite Loop, MS: 305-1PH, Cupertino, California 95014; Jeffrey M. Alves, whose address is One Infinite Loop; MS: 81-2PT, Cupertino, California 95014; Jim C. Hwang, whose address is One Infinite Loop, MS: 60-2ETF, Cupertino, California 95014; Jeffrey J. Terlizzi, whose address is One Infinite Loop; MS: 81-2PT, Cupertino, California 95014; John M. Ananny, whose address is One Infinite Loop, MS: 301-2COS, Cupertino, California 95014: Nagarajan Kalyanasundaram, whose address is One Infinite Loop, MS: 306-3PD, Cupertino, California 95014; Robert S. Parnell, whose address is One Infinite Loop, MS: 60-2ETF, Cupertino, California 95014; Steven G. Herbst, whose address is One Infinite Loop, MS: 81-2PT, Cupertino, California 95014; Todd K. Moyer, whose address is One Infinite Loop, MS: 81-PT, Cupertino, California 95014; Albert J. Golko, whose address is One Infinite Loop, MS: 305-1DR, Cupertino, California 95014; and Frank Liang. whose address is One Infinite Loop, MS: 306-3PD, 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 "Temperature Management in a Wireless Energy Transfer System," which can be identified in the United States Patent and Trademark Office ("USPTO") by Application No. 62/043,162, filed on August 28, 2014, with attorney docket no. P23131USP1 (the "Provisional Application"), and further disclosed and described in a utility application for Letters Patent in the United States ("U.S."), titled "Temperature Management in a Wireless Energy Transfer System," which can be identified in the USPTO by Application No. 14/837,965 filed on August 27, 2015 2014, with attorney docket no. P23131US1 (the "Utility Application"); and

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 I	,	Market nor canto mae exceeded and a toolgament apon
Date:		By:Amaur J. Heresztyn
		Amadiy 3. neresztyn
IN WITNES the date indicated I		nor hereunto has executed this Assignment upon
Date:		By:
		Keith Cox

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

Date:

By:

Amaury J. Heresztyn

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

Date:

By:

Keith Cox

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Date: _		***************************************		By: Jeffrey J. Terlizzi
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Date: _				By:
				By: Robert S. Parnell

IN WITNESS WHEREOF, the Assignor the date indicated below.	hereunto has executed this Assignment upon
Date:	Rv
	By: Eric S. Jol
the date indicated helpw	hereunto has executed this Assignment upon
Date: 12/4/14	By: —Jeffrey M. Alves
	- Jelliey W. Alves
IN WITNESS WHEREOF, the Assignor the date indicated below.	hereunto has executed this Assignment upon
Date:	By:
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	By:Robert S. Parnell

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and the second s	By: Nagarajan Kalyanasundaram
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(((((((((((((((((((By: Robert S. Parnell

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Date:	By: John M. Ananny
IN WITNESS WHEREOF, the Assignor the date indicated below. Date:	hereunto has executed this Assignment upon By: Nagarajan Kalyanasundaram
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Date	By: Robert S. Parnell

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	Jeffrey J. Terlizzi
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Date: 5/1/2015	By: John M. Ananny
	John M. Ananny
IN WITNESS WHEREOF, the Assignor the date indicated below.	hereunto has executed this Assignment upon
Date:	Ву:
	By: Nagarajan Kalyanasundaram
IN WITNESS WHEREOF, the Assignor the date indicated below.	hereunto has executed this Assignment upon
Date:	By:Robert S. Parnell
	Robert S. Parnell

IN WITNESS WHEREOF, the date indicated below.	he Assignor hereunto has executed this Assignment upon
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Date:	By:
	By: John M. Ananny
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5000. <u>->-75072014</u>	Nagarajan Kalyanasundaram
IN WITNESS WHEREOF, the date indicated below.	ne Assignor hereunto has executed this Assignment upon
Date:	By:
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IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.		
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T		Jeffrey J. Terlizzi
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,		John M. Ananny
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Date: _	By	r. Nagarajan Kalyanasundaram
	IN WITNESS WHEREOF, the Assignor her e indicated below. 20/5-04-09 By	

		ssignor hereunto has executed this Assignment upon
the date indica	ated below.	1 Same of Same
Date: <u>Dec</u>	9, 214	By: My Steven G. Herbst
		Steven G. Heipst
IN WIT the date indica		ssignor hereunto has executed this Assignment upon
Date:		By:
		By: Todd K. Moyer
IN WIT the date indica		ssignor hereunto has executed this Assignment upon
Date:		By: Albert J. Golko
	-	Albert J. Golka
IN WIT the date indica	NESS WHEREOF, the A ated below.	ssignor hereunto has executed this Assignment upon
Date:		By:
		Frank Liang

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.				
Date:	By:			
	By: Steven G. Herbst			
IN WITNESS WHEREOF, the Assignor the date indicated below. Date: 121an 2015	hereunto has executed this Assignment upon By: Todd K. Mayor			
IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.				
	By:Albert J. Golko hereunto has executed this Assignment upon			
the date indicated below.				
Date:	By:Frank Liang			

IN WITNESS WHEREOF, the Assign the date indicated below.	nor hereunto has executed this Assignment upon
Date:	By: Steven G. Herbst
	Steven G. Herbst
IN WITNESS WHEREOF, the Assign the date indicated below.	or hereunto has executed this Assignment upon
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	By: Todd K. Moyer
IN WITNESS WHEREOF, the Assign the date indicated below. Date: 8/26/15	or hereunto has executed this Assignment upon
	Albert J. Golko or hereunto has executed this Assignment upon
Date:	Bv∷
	By: Frank Liang

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.		
Date:	By: Steven G. Herbst	
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Date:	By: Todd K. Moyer	
IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below.		
Date:	By:Albert J. Golko	
IN WITNESS WHEREOF, the Assignor the date indicated below. Date: $4-9-20/5$	hereunto has executed this Assignment upon By: Frank Liang	

RECORDED: 08/27/2015