503700153 02/19/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3746792

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DANIEL R. BORGES	02/16/2016
SRIRAM HARIHARAN	02/12/2016
MATTHEW L. SEMERSKY	02/12/2016
MICHAEL J. GILES	02/13/2016
ANDRE M. BOULE	02/08/2016
BRIAN D. PIETSCH	02/08/2016
ARTIOM SHAMIS	02/15/2016
GANESHA ADKASTHALA GANAPATHI BATA	02/12/2016
CHRISTOPHER R. WHITNEY	02/09/2016
TANYA G. KANCHEVA	02/08/2016
FRIEDRICH W. DREES	02/09/2016

RECEIVING PARTY DATA

Name:	APPLE INC.
Street Address:	1 INFINITE LOOP
City:	CUPERTINO
State/Country:	CALIFORNIA
Postal Code:	95014

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15017523

CORRESPONDENCE DATA

Fax Number: (408)701-6210

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: (408) 701-6200

Email: aliu@downeybrand.com, ipdocketing@downeybrand.com

Correspondent Name: DOWNEY BRAND LLP Address Line 1: ATTN: IP DOCKETING

Address Line 2: P.O. BOX 569

Address Line 4: CUPERTINO, CALIFORNIA 95015

ATTORNEY DOCKET NUMBER:	P26410US1/21790US1
NAME OF SUBMITTER:	BRET J. MCCLAY
SIGNATURE:	/Bret J. McClay/
DATE SIGNED:	02/19/2016
Total Attachments: 11	
source=P26410US1_ASSIGNMENTS#p	page1.tif
source=P26410US1_ASSIGNMENTS#page2.tif	
source=P26410US1_ASSIGNMENTS#page3.tif	
source=P26410US1_ASSIGNMENTS#page4.tif	
source=P26410US1_ASSIGNMENTS#page5.tif	
source=P26410US1_ASSIGNMENTS#page6.tif	
source=P26410US1_ASSIGNMENTS#page7.tif	
source=P26410US1_ASSIGNMENTS#page8.tif	
source=P26410US1_ASSIGNMENTS#page9.tif	
source=P26410US1_ASSIGNMENTS#page10.tif	

source=P26410US1_ASSIGNMENTS#page11.tif

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

IN-VEHICLE WIRELESS COMMUNICATION

(Atty. Docket No. P26410US1/21790US.1)
which bears application No15/017,523 which is a provisional application.
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:
I) Sell, assign and transfer to Apple Inc., a California corporation having a place of business at I Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
6) Authorize and request my attorney/agent to insert above the application No. in order to assis with recordal of this assignment.
Signature: Typed Name: Daniel R. BORGES Date: Da

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

IN-VEHICLE WIRELESS COMMUNICATION

(Atty. Docket No. P26410US1/21790US.1)
which bears application No. 15/017,523 which is a provisional application.
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:
1) Sell, assign and transfer to Apple Inc., a California corporation having a place of business at I Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signed on the date indicated beside my signature.
Signature: Date: 412/16
Typed Name: Stiram HARIHARAN

vi.i

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

IN-VEHICLE WIRELESS COMMUNICATION

(Atty. Docket No. P26410US1/21790US.1)
which bears application No. 15/017,523 which is a provisional application.
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:
1) Sell, assign and transfer to Apple Inc., a California corporation having a place of business at 1 Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signed on the date indicated beside my signature.
Signature: Date: 2/12/2016 Typed Name: Manhow I. SUMERSKY

(Atty. Docket No. P26310US1/21790US.1.)

PATENT

PATENT

REEL: 037774 FRAME: 0595

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

IN-VEHICLE WIRELESS COMMUNICATION

(Atty. Docket No. P26410US1/21790US.1)
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:
1) Sell, assign and transfer to Apple Inc., a California corporation having a place of business at I Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
5) Warrant and represent that I have not entered and will not enter into any assignment contract, or understanding that conflicts with this assignment.
6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signature $2/\sqrt{3/6}$ Signature $\sqrt{2/\sqrt{3/6}}$ Signature $\sqrt{2/\sqrt{3/6}}$ Signature $\sqrt{2/\sqrt{3/6}}$

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

IN-VEHICLE WIRELESS COMMUNICATION

(Atty. Docket No. P26410US1/21790US.1)
which bears application No which is a provisional application.
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:
Sell, assign and transfer to Apple Inc., a California corporation having a place of business at I Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signed on the date indicated beside my signature.
Signature:
Typed Name: Androld BOHER

(Atty. Docket No. P26410US1/21790US.1)

vI.1

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

IN-VEHICLE WIRELESS COMMUNICATION

(Atty. Docket No. P26410US1/21790US.1.)
which bears application No. 15/017,523 which is a provisional application.
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:
1) Sell, assign and transfer to Apple Inc., a California corporation having a place of business at 1 Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signed on the date indicated beside my signature.
Signature: Date: 2/8/16 Typed Name: Brian D FIETSCH

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

IN-VEHICLE WIRELESS COMMUNICATION

(Atty. Docket No. P26410US1/21790US.1)
which bears application No. 15/017,523 which is a provisional application.
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:
I) Sell, assign and transfer to Apple Inc., a California corporation having a place of business at 1 Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signed on the date indicated beside my signature.
Signature: Date: 2/15/30/6 Typed Name: Antiom SHAMIS

(Atty. Docket No. P26410US1/21790US.1)

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

IN-VEHICLE WIRELESS COMMUNICATION

(Atty. Docket No.	. P26410US1/21790US.1)			
which bears which is a property when we have a property with the control of the c	application No. 15/017,523 rovisional application.	¥		
	d valuable consideration, the receipt and undersigned inventor, hereby:	and sufficiency of v	vhich is he	reby
I Infinite Loop, Cup above-referenced ap as concurrent applic thereof, foreign or P	and transfer to Apple Inc., a Californ pertino, CA 95014 ("ASSIGNEE"), a pplication, any and all improvements rations, applications having priority cratent Cooperation Treaty ("PCT") at y and all patents resulting from such m priority).	the entire right, title and inventions disc laims to/from, any opplications based in	and intere losed there derivative whole or a	est to the ein, as well applications at least in
resulting from said a	nd request the Commissioner of Pater application or any divisional, continu ation or reissue thereof to the ASSIG	ation, design applic		
perform any acts whapplication, as well	ecute all papers and documents and, on the control of the control	section with the pro f, foreign application	secution of	f said
the ASSIGNEE, its	ne terms, covenants and conditions of successors, assigns and other legal re the inventor's heirs, legal representa-	epresentatives, and		
	represent that I have not entered and anding that conflicts with this assign:		any assign	ment,
6) Authorize ar with recordal of this	nd request my attorney/agent to inser assignment.	t above the applicat	ion No. in	order to assist
Signed on th	e date indicated beside my signature	•		
Signature:		Date:	62	12/2016
Typed Name:	Ganesha Adkasihala GANAPATHI BATTA		•	***************************************

v1.1

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

IN-VEHICLE WIRELESS COMMUNICATION

(Atty. Docket No. P26410US1/21790US.1) which bears application No. 15/017,523 .
For good and valuable consideration, the receipt and sufficiency of which is hereby scknowledged, I, an undersigned inventor, hereby:
Sell, assign and transfer to Apple Inc., a California corporation having a place of business at Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications hereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
Authorize and request the Commissioner of Patents to issue any and all United States Patents esulting from said application or any divisional, continuation, design application, substitute, enewal, re-examination or reissue thereof to the ASSIGNEE.
Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said pplication, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
Warrant and represent that I have not entered and will not enter into any assignment, ontract, or understanding that conflicts with this assignment.
Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signed on the date indicated beside my signature.
Signature: Date: 7/9/2=16 Typed Name: Christopher R. WHITNEY

(Atty. Docket No. P26410US1/21790US.1)

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

IN-VEHICLE WIRELESS COMMUNICATION

(Atty. Docket No. P26410US1/21790US.1)
which bears application No. <u>15/017,523</u> which is a provisional application.
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:
1) Sell, assign and transfer to Apple Inc., a California corporation having a place of business at 1 Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signed on the date indicated beside my signature.
Signature: JUNIUVA Date: 0408/2016 Typed Name: Tanya & RANCHEVA

(Atty. Docket No. P26410US1/21790US.1)

PATENT REEL: 037774 FRAME: 0602

v1.1

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

IN-VEHICLE WIRELESS COMMUNICATION

(Atty. Docket No. P26410US1/21790US.1.)
which bears application No. 15/017,523 which is a provisional application.
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:
Sell, assign and transfer to Apple Inc., a California corporation having a place of business at 1 Infinite Loop, Cupertino, CA 95014 ("ASSIGNEE"), the entire right, title and interest to the above-referenced application, any and all improvements and inventions disclosed therein, as well as concurrent applications, applications having priority claims to/from, any derivative applications thereof, foreign or Patent Cooperation Treaty ("PCT") applications based in whole or at least in part thereon, and any and all patents resulting from such applications (including foreign patents and the right to claim priority).
Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any divisional, continuation, design application, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.
Signed on the date indicated beside my signature.
Signature: Date: 2-4-16 Typed Name: Friedrick W. DRIES

(Atty. Docket No. P26410US1/21790US.1)

RECORDED: 02/19/2016

PATENT REEL: 037774 FRAME: 0603

v1.3