01/23/2017 504190822

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4237497

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS M. ALSINA	10/19/2016
SAMUEL M. WEINIG	10/11/2016
CHANCE GRAHAM	10/05/2016
TAYLOR G. CARRIGAN	10/11/2016
NATHAN DE VRIES	10/03/2016
TIMOTHY P. HORTON	10/11/2016

RECEIVING PARTY DATA

Name:	APPLE INC.
Street Address:	1 INFINITE LOOP
City:	CUPERTINO
State/Country:	CALIFORNIA
Postal Code:	94085

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15411176

CORRESPONDENCE DATA

Fax Number: (408)720-8383

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: 408-720-8300

Email: juanita_briscoe@bstz.com JAMES C. SCHELLER **Correspondent Name:** Address Line 1: 1279 OAKMEAD PKWY

Address Line 2: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

SUNNYVALE, CALIFORNIA 94085 Address Line 4:

ATTORNEY DOCKET NUMBER:	04860.P31604
NAME OF SUBMITTER:	JAMES C. SCHELLER, REG. NO. 31,195
SIGNATURE:	/James C. Scheller/
DATE SIGNED:	01/23/2017

PATENT REEL: 041047 FRAME: 0066 504190822

Total Attachments: 8 source=P31604_Assignment#page1.tif source=P31604_Assignment#page2.tif source=P31604_Assignment#page3.tif source=P31604_Assignment#page4.tif source=P31604_Assignment#page5.tif source=P31604_Assignment#page6.tif source=P31604_Assignment#page7.tif source=P31604_Assignment#page8.tif

PATENT REEL: 041047 FRAME: 0067

ASSIGNMENT OF PATENT APPLICATION	Attorney Docket No.: 04860.P31604
For good and valuable consideration, the receipt an	
acknowledged, I/we, the undersigned, Thomas M. Alsin	a, Samuel M., Weinig, Chance Graham,
Taylor G. Carrigan, Nathan DeVries, Timothy P. Horton	, , , , , , , , , , , , , , , , , , ,
hereby sell, assign, and transfer to Apple Inc.	
a <u>corporation</u> of <u>Cal</u> (Type of Assignee: e.g., corporation, company, paraership, university	lifornia, (. etc.)
having a principal place of business at <u>I Infinite Loop.</u>	Cupertino, CA, 95014
("Assignee"), and its successors, assigns, and legal represent the United States and all foreign countries, in and to any an disclosed in the application (provisional or non-provisional non-provisional application may have a declaration execute concurrently herewith and which application (provisional or non-provisional or non-provisio	nd all inventions or improvements that are i) for the United States patent which for the ed by the undersigned prior hereto or
CONVERSION OF TEXT RELATING TO MEDIA (CONTENT AND MEDIA EXTENSION
said patent application also identified as follows (when kno	own):
[I/we hereby authorize an attorney or agent for said number and filing date of said patent application w	
United States Patent Application Number 15/411,176	filed January 20, 2017
and in and to said application (provisional or non-provision provisional applications, utility applications, design applications applications, continuation applications, continuation applications, renewal applications, reissue applications, ree applications that have been or shall be filed in the United Sinventions or improvements; and in and to all original puter certificates, and extensions, that have been or shall be issue countries on said inventions or improvements; and in and to filing of said United States application;	ations, divisional applications, continuation ion-in-part applications, substitute examinations, extensions, and all other patent tates and all foreign countries on any of said attacts, reissued patents, reexamination et an the United States and all foreign
agree that said Assignee may apply for and receive improvements in its own name; and that, when requested, v Assignee, its successors, assigns, and legal representatives, purpose of this Assignment, the undersigned will execute a applications, utility applications, design applications, divisi continued prosecution applications, continuation-in-part applications, reissue applications, reexaminations, extension and all said inventions or improvements; execute all rightful and other papers; communicate to said Assignee, its success known to the undersigned relating to said inventions or imp	without charge to, but at the expense of, said to carry out in good faith the intent and ill provisional applications, non-provisional ional applications, continuation applications, plications, substitute applications, renewal as, and all other patent applications on any ill oaths, assignments, powers of attorney, sors, assigns, and representatives all facts

generally assist said Assignce, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or

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Rev. 1/08/2010

improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignce, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no

Date Name: Thomas M. Alsina , 20 Date Name: Samuel M. Weinig , 20 Date Name: Chance Graham , 20 Date Name: Taylor G. Carrigon , 20 Date Name: Nathun DeVries Date Name: Timothy P. Horton Assignment Document Return Address:	10/19	, 20 16	<u> </u>
	Date		Namé: Thomas M. Alsina
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Date Name: Chance Graham 20 Date Name: Taylor G. Carrigan 20 Date Name: Nathan DeVries 20 Date Name: Timothy P. Horion Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LL 1279 Oakmead Parkway Sunnyvale, CA 94085-4040	Date		Name: Samuel M. Weinig
Date Name: Chance Graham 20 Date Name: Taylor G. Carrigan 20 Date Name: Nathan DeVries 20 Date Name: Timothy P. Horion Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LL 1279 Oakmead Parkway Sunnyvale, CA 94085-4040		. 70	
Date Name: Taylor G. Carrigon , 20 Date Name: Nathun DeVries , 20 Date Name: Timothy P. Horton Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LL 1279 Oakmead Parkway Sunnyvale, CA 94085-4040	Dute		Name: Chance Graham
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Date Name: Timothy P. Horton <u>Assignment Document Return Address:</u> BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LL 1279 Oakmead Parkway Sunnyvale, CA 94085-4040	Date	~~~¢ × × ×	Name: Nathun DeVries
Date Name: Timothy P. Horton <u>Assignment Document Return Address:</u> BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LL 1279 Oakmead Parkway Sunnyvale, CA 94085-4040		าก	
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LL 1279 Onkmend Parkway Sunnyvale, CA 94085-4040	Date		Name: Timothy P. Horton
			BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLI 1279 Ookmend Purkway Sunnyvale, CA 94085-4040

ASSIGNMENT OF PATENT APPLICATION Allomey Docket No.: 04860 P11604
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Thomas M. Alsina, Samuel M. Weinlg, Chance Graham,
Taylor G. Carrigan, Nathan De Vries, Timothy P. Horton
hereby sell, assign, and transfer to Apple Inc.
a <u>corporation</u> of <u>California</u> , (Type of Assignce: e.g., corporation, company, pannership, university, etc.)
having a principal place of business at <u>I Infinite Loop, Cuperting, CA, 95014</u> ,
("Assignce"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled
CONVERSION OF TEXT RELATING TO MEDIA CONTENT AND MEDIA EXTENSION APPS
said patent application also identified as follows (when known):
[I'we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]
United States Patent Application Number 15/411,176 filed January 20, 2017
and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continuation—in-part applications, substitute applications, continuations, receasions, continuation—in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;
agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continued applications applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements.

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PATENT REEL: 041047 FRAME: 0070

improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignce, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no ussi con exp

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Date) »Կ	Name: Thomas M. Alsina
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Date		Name: Samuel M. Weinig
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' Date		Norfie: Chance Graham
	, 20	N
Date		Name: Taylor G. Carrigan
10/03 Date	, 20 <u>_/</u>	Nume: Nathan de Vries
&# With</td><td></td><td>rauna. Mainan de Vries</td></tr><tr><td>Date</td><td>, 20</td><td>Name: Timothy P. Horton</td></tr><tr><th></th><th></th><th>Assignment Document Return Address:</th></tr><tr><td></td><td></td><td>BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway</td></tr><tr><td></td><td></td><td>Sunnyvole, CA 94085-4040 (408) 720-8300</td></tr><tr><td></td><td></td><td>(100) 12000</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>		

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ASSIGNMENT OF PATENT APPLICATION Altomey Docket No.: 0 For good and valuable consideration, the receipt and sufficiency of which is he	3^^^^^
acknowledged, I/we, the undersigned, <u>Thomas M. Alsina, Samuel M. Weinig, Char</u>	
Taylor G. Carrigan, Nathan De Vries, Timothy P. Horton	35.56.36333222222
hereby sell, assign, and transfer to <u>Apple Inc.</u>	······································
a <u>corporation</u> of <u>California</u> (Type of Assignee: e.g., corporation, company, purtnership, university, etc.)	9
having a principal place of business at <u>I Infinite Loop, Cupertino, CA, 95014</u>	
("Assignce"), and its successors, assigns, and legal representatives, the entire right, title the United States and all foreign countries, in and to any and all inventions or improve disclosed in the application (provisional or non-provisional) for the United States pate non-provisional application may have a declaration executed by the undersigned prior concurrently herewith and which application (provisional or non-provisional) is entitled.	ements that are ent which for the thereto or
CONVERSION OF TEXT RELATING TO MEDIA CONTENT AND MEDIA APPS	EXTENSION
said patent application also identified as follows (when known):	
[I/we hereby authorize an attorney or agent for said Assignee to insert below to number and filing date of said putent application when known.]	he application
United States Patent Application Number 15/411,176 filed January 20, 2017	
and in and to said application (provisional or non-provisional) and all provisional applications, divisional applications, design applications, divisional applications applications, design applications, divisional applications applications, continuation-in-part applications, subapplications, continuations, extensions, are applications, renewal applications, reissue applications, reexaminations, extensions, are applications that have been or shall be filed in the United States and all foreign countries inventions or improvements; and in and to all original patents, reissued patents, reexaminations or improvements; and in and to all rights of priority result filing of said United States application;	ns, continuation bstitute ad all other patent les on any of said mination all foreign
agree that said Assignce may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the Assignce, its successors, assigns, and legal representatives, to carry out in good faith the purpose of this Assignment, the undersigned will execute all provisional applications, applications, utility applications, design applications, divisional applications, continual continued prosecution applications, continuation-in-part applications, substitute applications, reissue applications, reexaminations, extensions, and all other patent applications, reissue applications, reexaminations, extensions, and all other patent applications, reissue applications, reexaminations, extensions, and all other patent applications or improvements; execute all rightful oaths, assignments, power and all said inventions or improvements and the history to generally assist said Assigned, its successors, assigns, or representatives in securing an proper patent protection for said inventions or improvements and for vesting title to said	expense of, said he intent and non-provisional tion applications, ations, renewal lications on any rs of attorney, atives all facts thereof; and maintaining

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improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

Date Name: Thomas M, Alsina Date Name: Samuel M, Weinig Date Name: Chance Graham O 11	Each Inve	ntor: Please	Sign <u>und Date</u> Below:
Date Name: Sumuel M. Weinig 20 Date Name: Chance Graham 10 / 11 Date Name: Taylor G. Carrigan 20 Date Name: Nathan DeVries 20 Date Name: Nathan DeVries Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway Sunnyvale, CA 94085-4040		, 20	
Date Name: Sainuel M, Weinig	Date		Name: Thomas M. Alsina
Date Name: Samuel M. Weinig 20 Date Name: Chance Graham 10 / 11 Date Name: Taylor G. Carrigan Date Name: Nathan DeVries Date Name: Timothy P. Horton Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway Sunnyvale, CA 94085-4040			
Date Name: Chance Graham O / N			Name: Samuel M. Weinig
Date Name: Chance Graham 10 / 11 20 16 Sume: Taylor G. Carrigan Date Name: Nathan DeVries Date Name: Nathan DeVries 20 Date Name: Timothy P. Horton Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmend Parkway Sunnyvale, CA 94085-4040			
Date Nume: Taylor G. Carrigan 20 Date Name: Nathan DeVries - 20 Date Name: Timothy P. Horion Assignment Document Roturn Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmend Parkway Sunnyvale, CA 94085-4040	Date		Name: Chance Graham
Date Name: Taylor G. Carrigan	10/11	2016	
Date Name: Nathan DeVries 20 Dute Name: Timothy P. Horton Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmend Parkway Sunnyvale, CA 94085-4040	Date		Name: Taylor G. Carrigan
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Date Name: Timothy P. Horton <u>Assignment Occument Raturn Address:</u> BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmend Parkway Sunnyvale, CA 94085-4040			Name: Nathan DeVries
Date Name: Timothy P. Horton <u>Assignment Occument Raturn Address:</u> BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmend Parkway Sunnyvale, CA 94085-4040		***	
Assignment Document Raturn Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmend Parkway Sunnyvale, CA 94085-4040			Name: Timothy P. Honon
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmend Parkway Sunnyyvie, CA 94085-4040			
BLAKELY, SOKÖLÖFF, TAYLOR & ZAFMAN LLP 1279 Oakoscad Parkway Sunnyvale, CA 94085-4040			Assignment Drussmens Rossen Address:
Sunnyvale, CA 94085-4040			BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

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 A	SSIGNMENT OF PATENT APPLICATION Automory Docket No.: 04860,P31604
	For good and valuable consideration, the receipt and sufficiency of which is hereby
	acknowledged, I/ve, the undersigned. Thomas M. Alsina, Samuel M. Weinig, Chance Graham,
	Taylor G. Carrigan, Nathan DeVries, Timothy P. Horton
	hereby sell, assign, and transfer to Apple Inc.
	a <u>corporation</u> of <u>California</u> , (Type of Assignee: e.g., corporation, company, partnership, university, etc.)
	having a principal place of business at I Infinite Loop, Cupenino, CA, 95014,
	("Assignce"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled
	CONVERSION OF TEXT RELATING TO MEDIA CONTENT AND MEDIA EXTENSION APPS
	said putent application also identified as follows (when known):
	[I/we hereby authorize an attorney or agent for said Assignce to insert below the application number and filing date of said patent application when known.]
	United States Patent Application Number 15/411,176 filed January 20, 2017
	and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;
	agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or

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improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignce, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

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Date		Name: Thomgs M. Alşina
Q1 11"	. 20 [6	5.1 Win
Date		Name: Samuel M. Welnig
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Date		Name: Chance Graham
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Date		Name: Taylor G. Carrigan
	, 20	
Date		Nume: Nuthin DeVries
7.4N	. 20 16	シープをする
Date	* *************************************	Nunc: Tinushy P. Horum

Assignment Document Return Address:
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
1279 Oakmead Parkway
Sunnyvale, CA 94085-4040
(408) 720-8300

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