

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT3686534

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	MOTOROLA MOBILITY LLC	10/28/2014
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	GOOGLE TECHNOLOGY HOLDINGS LLC	
<b>Street Address:</b>	1600 AMPHITHEATRE PARKWAY	
<b>City:</b>	MOUNTAIN VIEW	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	94043	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	14295381
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(240)359-4879	
<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>		
<b>Phone:</b>	912 257 4864	
<b>Email:</b>	marina@jmi-iplaw.com	
<b>Correspondent Name:</b>	JOHNSON, MARCOU & ISAACS, LLC	
<b>Address Line 1:</b>	317A EAST LIBERTY STREET	
<b>Address Line 4:</b>	SAVANNAH, GEORGIA 31401	
<b>ATTORNEY DOCKET NUMBER:</b>	MOTO-6009	
<b>NAME OF SUBMITTER:</b>	MARINA ORMAN	
<b>SIGNATURE:</b>	/MARINA ORMAN/	
<b>DATE SIGNED:</b>	01/07/2016	
<b>Total Attachments: 9</b>		
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## US PATENT ASSIGNMENT

This PATENT ASSIGNMENT (the "ASSIGNMENT") dated as of October 28, 2014 is entered into by and between Motorola Mobility LLC ("ASSIGNOR") and Google Technology Holdings LLC ("ASSIGNEE").

### WITNESSETH:

WHEREAS, ASSIGNOR desires to assign to ASSIGNEE all of its right, title and/or interest in and to those patents and patent applications set forth in Schedule A hereto (all such patents and patent applications, whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, abandoned or the like, collectively, the "PATENTS AND PATENT APPLICATIONS").

WHEREAS, ASSIGNEE desires to obtain the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS.

NOW, THEREFORE, in consideration of the good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt and sufficiency of which is hereby acknowledged, the parties hereby agree as follows:

Section 1. Assignment. ASSIGNOR hereby assigns and transfers to ASSIGNEE, and ASSIGNEE hereby accepts, all of ASSIGNOR's right, title and interest throughout the world in, to and under the PATENTS AND PATENT APPLICATIONS, including the inventions claimed therein, and all reissuances, continuations, continuations-in-part, revisions, renewals, divisionals, extensions and reexaminations thereof, and any and all letters patent which may be granted therefor in any jurisdiction, and all rights of action, powers, and benefits arising from ownership of the PATENTS AND PATENT APPLICATIONS, for ASSIGNEE's own use and enjoyment, and for the use and enjoyment of ASSIGNEE's successors, assigns and other legal representatives, as fully and entirely as the same would have been held and enjoyed by

ASSIGNOR if this ASSIGNMENT had not been made, including, in each case:

- (a) the right to sue and recover for damages or other compensation and the right to sue and obtain other legal and equitable remedies in respect of all causes of action arising before, on, or after the date of this ASSIGNMENT, including in respect of past, present or future infringements, and the right to fully and entirely stand in the place of the ASSIGNOR in all matters related thereto; and ASSIGNOR hereby also assigns and transfers to ASSIGNEE any claims for past use or infringement of the PATENTS AND PATENT APPLICATIONS, including claims for damages and accounting under applicable law;
- (b) the right to file and prosecute in its own name, wherever so permitted by law, patent applications, including corresponding applications, based on any of the PATENTS AND PATENT APPLICATIONS and to prosecute, make filings with respect to, register, defend and maintain the PATENTS AND PATENT APPLICATIONS before any patent office and governmental authority, including by filing reissues, reexaminations, divisionals, continuations, continuations-in-part, substitutes, extensions and all other applications relating thereto; and
- (c) the right to claim priority to any of the PATENTS AND PATENT APPLICATIONS pursuant to the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.

ASSIGNOR retains no ownership rights in the PATENTS AND PATENT APPLICATIONS and the rights transferred to ASSIGNEE hereunder.

Section 2. Patent Rights. ASSIGNEE may apply for and receive patents in its own name in respect of the PATENTS AND PATENT APPLICATIONS wherever so permitted by

law.

Section 3. General. As used in this ASSIGNMENT, the words "herein," "hereof" and "hereunder" and other words of similar import refer to this ASSIGNMENT as a whole, as the same may from time to time be amended or supplemented and not to any particular subdivision contained in this ASSIGNMENT. The word "including" when used herein is not intended to be exclusive, or to limit the generality of the preceding words, and means "including, without limitation." This ASSIGNMENT shall be binding upon and shall inure to the benefit of the parties and their respective successors and assigns. This ASSIGNMENT shall be governed by, and construed in accordance with, the laws of the United States in respect to patent issues and in all other respects by the laws of State of California, without giving effect to the conflict of laws rules thereof. This ASSIGNMENT may be signed in counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

IN WITNESS WHEREOF, ASSIGNOR has caused this ASSIGNMENT to be executed by its  
duly authorized representative on this 24th day of October 2015.

Motorola Mobility LLC

By: [Signature]

Printed Name: Thomas V. Miller

Title: Vice President Intellectual Property

Date: 10/24/2015

The state of Illinois

On 10/24/2015 before me personally appeared Thomas V. Miller

who proved to me on the basis of satisfactory evidence to be the person whose name is  
subscribed to the within instrument and acknowledged to me that he/she-executed the same in  
his/her authorized capacity, and that by his/her signature on the instrument the person, or the  
entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Illinois that  
the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

(Seal)



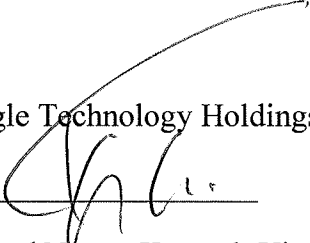
[Signature]  
Notary Public

My commission expires:

*Signature page to the US Patent Assignment*

ASSIGNEE hereby accepts receipt of the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS.

Google Technology Holdings LLC

By: 

Printed Name: Kenneth Yi

Title: **Assistant Secretary**

Date: **NOV 17 2015**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

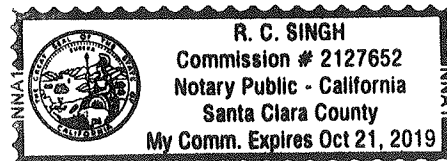
State of California  
County of Santa Clara


On 11/17/2015 before me, R. C. SINGH, Notary Public, personally appeared  
(Here insert name and title of the officer)

KENNETH YI, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



  
Notary Public Signature

(Notary Public Seal)

*Signature page to the US Patent Assignment*

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**PATENT**  
**REEL: 037435 FRAME: 0161**

## Schedule A

Index	DOCKET NUMBER	PATENT MASTERID	Patent Number	Publication Number	Application Number	COUNTRY	Title
1					62/055,766	USA	SYNCHRONISATION AND MEASUREMENTS FOR LTE ON AN UNLICENSED CARRIER
2	CS27462RL	132503	8005987	US20100146573A1	12/705,806	USA	MULTI-REPRESENTATION MEDIA EVENT HANDOFF
3	CS21212RA	136819		US20120090019A1	13/330,565	USA	DIGITAL-RIGHTS MANAGEMENT
4	CS41395				13/955,186	USA	APPARATUS AND METHOD FOR POWER EFFICIENT SIGNAL CONDITIONING IN A VOICE RECOGNITION SYSTEM
5					14/295,381	USA	Low-Power Near-Field Communication Authentication
6					14/299,323	USA	METHOD FOR CONSERVING RESOURCES DURING WIRELESS HANDOVER OF A DUAL MODE MOBILE STATION
7					14/299,506	USA	LINK LAYER ASSISTED ROBUST HEADER COMPRESSION CONTEXT UPDATE MANAGEMENT
8					14/305,546	USA	TECHNIQUES FOR ALIGNING APPLICATION OUTPUT AND UPLINK RESOURCE ALLOCATION IN WIRELESS COMMUNICATION SYSTEMS
9					14/306,435	USA	METHOD AND APPARATUS FOR PROVIDING MOBILE IP SERVICE THROUGH A NETWORK ADDRESS TRANSLATION GATEWAY
10					14/306,501	USA	METHOD FOR UPLINK ACKNOWLEDGEMENT/NON-ACKNOWLEDGEMENT MESSAGES IN A WIRELESS COMMUNICATION SYSTEM
11					14/306,663	USA	METHOD AND APPARATUS FOR RECEIVING A CONTROL CHANNEL
12					14/306,821	USA	METHOD AND APPARATUS FOR ADAPTIVE NETWORK HEARTBEAT MESSAGE FOR TCP CHANNEL
13					14/322,878	USA	DIGITAL RIGHTS MANAGEMENT WITH IRREGULAR NETWORK ACCESS
14					14/331,743	USA	OBJECT MODEL FOR DELIVERING LIVE TV PROGRAMMING STREAMS TO CLIENT DEVICE
15					14/333,009	USA	DETERMINING THE LOCATION OF A POINT OF INTEREST IN A MEDIA STREAM THAT INCLUDES CAPTION DATA



Index	DOCKET NUMBER	PATENT MASTERID	Patent Number	Publication Number	Application Number	COUNTRY	Title
16					14/334,044	USA	COMMUNICATING MODEM OR MULTIMEDIA TERMINAL ADAPTER STATUS TO A HANDSET FOR A CORDLESS TELEPHONE
17					14/334,973	USA	METHOD AND APPARATUS FOR MULTI-RADIO COEXISTENCE
18					14/336,063	USA	METHOD AND APPARATUS FOR ANNOTATING VIDEO CONTENT WITH METADATA GENERATED USING SPEECH RECOGNITION TECHNOLOGY
19					14/337,797	USA	COMMUNICATION NETWORK AND METHOD OF OPERATION THEREFOR
20					14/339,787	USA	METHOD FOR SEMI-STATICALLY ADAPTING UPLINK MULTIPLE-INPUT MULTIPLE-OUTPUT TRANSMISSION
21					14/339,962	USA	APPARATUS AND METHOD FOR MANAGING GRAPHICS BUFFERS FOR A PROCESSOR IN SLEEP MODE
22					14/340,384	USA	PIRACY PREVENTION IN DIGITAL RIGHTS MANAGEMENT SYSTEMS
23					14/340,645	USA	METHOD AND APPARATUS FOR ULTRASONIC TRIGGERED AUDIO REDUCTION
24					14/389,020	USA	APPARATUS AND METHOD FOR OPERATIONAL STATE SYNCHRONIZATION IN A WIRELESS COMMUNICATION SYSTEM
25					14/390,954	USA	TEXT SELECT AND ENTER
26					14/450,396	USA	HANDOVER DURING CARRIER AGGREGATION OPERATION WIRELESS COMMUNICATION NETWORK
27					14/464,016	USA	SEARCH-BASED DYNAMIC VOICE ACTIVATION
28					14/468,030	USA	METHOD AND SYSTEM FOR MONITORING A LOCATION
29					14/474,808	USA	DISPLAY DEVICE, CORRESPONDING SYSTEMS, AND METHODS THEREFOR
30					14/475,131	USA	USER INTERFACE FOR ELECTRONIC DEVICES AND METHODS THEREFOR
31					14/486,418	USA	INTERFERENCE MEASUREMENTS IN ENHANCED INTER-CELL INTERFERENCE COORDINATION CAPABLE WIRELESS TERMINALS

Index	DOCKET NUMBER	PATENT MASTERID	Patent Number	Publication Number	Application Number	COUNTRY	Title
32					14/486,688	USA	SYSTEM AND METHOD FOR TRANSPORT STREAM SYNC BYTE DETECTION WITH TRANSPORT STREAM HAVING MULTIPLE EMULATED SYNC BYTES
33					14/493,615	USA	METHOD AND APPARATUS FOR COMMUNICATING DELIVERY OF DATA PACKETS TO A USER EQUIPMENT IN A WIRELESS COMMUNICATION SYSTEM
34					14/496,019	USA	CONFIGURABLE SPATIAL CHANNEL INFORMATION FEEDBACK IN WIRELESS COMMUNICATION SYSTEM
35					14/505,746	USA	SYSTEM PROVIDING SPONSORED CONTENT
36					14/513,067	USA	METHOD FOR COLLECTING MEDIA ASSOCIATED WITH A MOBILE DEVICE
37					14/513,085	USA	DATA COLLECTION DEVICE CONTROL
38					14/514,943	USA	METHOD AND APPARATUS FOR SCHEDULING ASYNCHRONOUS TRANSMISSIONS
39					14/520,756	USA	Method For Retrieving Content By A Wireless Communication Device Having First And Second Radio Access Interfaces, Wireless Communication Device And Communication System
40					14/521,792	USA	AUTONOMOUS MUTING INDICATION TO ENABLE IMPROVED TIME DIFFERENCE OF ARRIVAL MEASUREMENTS
41					14/523,841	USA	MANAGING ADAPTIVE STREAMING OF DATA VIA A COMMUNICATION CONNECTION
42					14/527,202	USA	SCALABLE DATA ACQUISITION AND ACCUMULATION IN A RESOURCE CONSTRAINED ENVIRONMENT
43					14/532,955	USA	REMOTE CONTROL WITH USER PROFILE CAPABILITY
44					14/536,664	USA	SYSTEM AND METHOD FOR CONVEYING SESSION INFORMATION FOR USE IN FORENSIC WATERMARKING
45					14/537,231	USA	METHOD AND SYSTEM FOR INTERMEDIATE NODE QUALITY OF SERVICE NEGOTIATIONS
46					14/551,772	USA	SYSTEM AND METHOD FOR SECURING THE LIFE-CYCLE OF USER DOMAIN RIGHTS OBJECTS

Index	DOCKET NUMBER	PATENT MASTERID	Patent Number	Publication Number	Application Number	COUNTRY	Title
47					14/231,644	USA	Highlighting Media Through Weighting of People or Contexts
48					14/231,611	USA	Grading Images and Video Clips
49					14/231,573	USA	Highlight Reel
50	CS41452	142358			61/826067	USA	MICRO TO MACRO IP CONNECTION HANDOVER
51	CS42809	142359			62/055766	USA	SYNCHRONISATION AND MEASUREMENTS FOR LTE ON AN UNLICENSED CARRIER