504639749 11/13/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4686468

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MOTOROLA MOBILITY LLC	10/28/2014

RECEIVING PARTY DATA

Name:	GOOGLE TECHNOLOGY HOLDINGS LLC
Street Address:	1600 AMPHITHEATRE PARKWAY
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15811033

CORRESPONDENCE DATA

Fax Number: (864)233-7342

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Email: docketing@dority-manning.com

Correspondent Name: DORITY & MANNING, P.A. AND GOOGLE TECHNO

Address Line 1: POST OFFICE BOX 1449

Address Line 4: GREENVILLE, SOUTH CAROLINA 29602-1449

ATTORNEY DOCKET NUMBER:	GGL-545-CON2
NAME OF SUBMITTER:	JOSEPH J. PROBST
SIGNATURE:	/joseph j. probst/
DATE SIGNED:	11/13/2017

Total Attachments: 6

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PATENT 504639749 REEL: 044111 FRAME: 0242

U.S. PATENT ASSIGNMENT

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

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 <u>Schedule A</u> hereto (all such patents and patent applications, whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, abandoned or the like, collectively, the "<u>PATENTS AND PATENT APPLICATIONS</u>").

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. <u>Assignment</u>. 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

PATENT REEL: 044111 FRAME: 0243 (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. <u>Patent Rights</u>. 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. <u>General</u>. 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 the 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 28 day of October, 2014.

	1
<u> </u>	-Wu
inted Name: _	Kenneth Yi
tle:	Assistant Secretary
ite:	10/28/14
-	inted Name:

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.

(Seal)

PIA VICTOR
Commission # 2083015
Notary Public - Ca'-ornia
Santa Clara County
My Comm Expires Apr 27 2018

Mr. Vidor

Notary Public

My commission expires: 4/27/18

Signature page to the U.S. Patent Assignment

PATENT REEL: 044111 FRAME: 0245

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: Venneth Vi Assistant Secretary Title: Date: State of California County of Senta Clara

On October 28,2614, before me personally appeared Kenneth Vi 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 scal.

PIA VICTOR

(Seal)

Commission # 2063015 Notary Public - Ca∵ornia Santa Clara County My Comm. Expires Apr 27, 2018 Notary Public - Callornia

Notary Public

My commission expires: 4/27/18

Signature page to the U.S. Patent Assignment

Schedule A to the U.S. Patent Assignment

SCHEDULE A

[See following page]

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CHATCHS CHAT	COMMAND QUEDING FOR MULTIMEDIA STORAGE DEVICES	USA	11/165,450			102725	CEBBOORE	_
CA12288 Internation Inte	COMMAND OTTELLING FOR MITH TIMEDIA STORAGE DEVICES	I IC A	11/166 AEO			103735	CENTONOBI	15625
C442288 141290 141990 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141994,485 141995 141996, 141997, 141996 141997,917 141996, 141997,917 141996, 141997,917 141996, 141997,917 141996, 141997,917 141997,917	COMMAND QUEUING FOR MULTIMEDIA STORAGE DEVICES	USA	10/335,139			47037	CS99008RL	
C542288 141290 141290 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,485 141934,222 1	METHOD FOR CONTROLLING DIVERSITY RECEIVERS IN A WIRELESS COMMUNICATION DEVICE	USA	11/028,870		7489913	99896	CS90108	15623
CS42288	COMMUNICATION DEVICE INCLUDING ONE OR MORE ELECTRICAL CONTROL BUTTONS IN AN UPPER HOUSING PART	USA	10/874,071			97797	CS90106	15622
CS42288 141290	METHOD AND APPARATUS FOR DATA TRANSFER	USA	11/020,326			99904		
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CS422288 141290 PARICE SPANSE PARICE SPANSE DEPARTMENT PARICE SPANSE DEPARTMENT DEPA	BETWEEN WIRELESS NETWORKS VIA MEDIA GATEWAY CONTROL	USA	10/180,414		6889045	46942	CS90055	15619
C542288 141290 141290 141389 141389 141389 141387 USA 141389 141389 141389 141389 141389 141389 141387 USA 141387 USA 141387 USA 141387 USA 141387 USA 141387 USA 141388 USA 141388 USA 141388 USA 141389 USA	METHOD AND APPARATUS FOR IMPLEMENTING BI-DIRECTIONAL SOFT HANDOVERS							_
CS422288 141290 Pather Namber Pather Namber Application Namber LUANA RESTREAL CS42288 141290 61/934,485 USA CS42288 14189 14/183,022 USA CS42296 141371 USA 61/927,917 USA CS42296 141367 61/927,917 USA CS42296 141368 61/927,917 USA CS42210 141358 61/927,487 USA CS42311 141222 61/927,487 USA CS42312 141408 61/928,233 USA CS42313 141338 USA 61/929,813 USA CS42312 141438 USA 61/929,813 USA CS42312 141471 USA 61/920,783 USA CS42329 141338 USA 61/920,813 USA CS42398 141571 USA 61/920,813 USA CS42398 141671 USA 61/920,813 USA CS42398 141671	SELF-CONFIGURING MULTIPLE ELEMENT PORTABLE ELECTRONIC DEVICE	USA	11/038,739			100319	CS90050RL	_
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Declare National Pale National Pale National N	IMPROVED TURBO CODE BASED INCREMENTAL REDUNDANCY	USA	10/074,115	·	7000173	46915	CS90047RF	15616
CS42288 141290 CS42288 141291 CS42288 CS42288 141271 CS42288 CS42286 CS42286 CS42286 CS42286 CS42286 CS42288 CS4	MOBILE WIRELESS COMMUNICATION HANDSET WITH SOUND MIXER AND METHODS THEREFOR	USA)9/972,381			46903	CS90041	15615
	GPS ASSISTANCE MESSAGES IN CELLULAR COMMUNICATIONS NETWORKS AND THEREFOR	USA	09/785,960		7747257	46888	CS90038	15614
CA42288 141290 141369	MANAGING DEVICE RESOURCES AND CONFIGURATION	USA	14/222,748			141626	CS42447	15613
	MANAGING DEVICE RESOURCES AND CONFIGURATION	USA	14/222,732			141625	CS42446	15612
CS42288 I41290	MULTI-RAT PDN CONNECTIONS	USA	61/944,723			141666	CS42431	15611
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CS42288 141290 CS42288 141599 CS42288 141599 CS42288 141599 CS42296	METHOD AND APPARATUS FOR PROVIDING CHARGING ALERTS	USA	14/219,080			141513	CS42411	
CS42288 141290 Franciscum number Equitation num	PORTABLE ELECTRONIC DEVICE WITH DUAL DIAGONAL PROXIMITY SENSORS AND MODE SWITCHING FUNCTIONALITY	USA	61/970,418			141671	CS42400	
CS42288 141290 Framework Application number Lithium CS42288 141589 14/183,022 USA CS42296 141367 61/921,507 USA CS42306 141407 61/927,917 USA CS42306 141458 61/972,487 USA CS42310 141364 61/972,487 USA CS42311 141222 61/972,487 USA CS42312 141408 61/969,803 USA CS42339 14138 61/969,803 USA CS42339 141398 61/955,758 USA CS42369 141523 61/969,810 USA CS42375 141471 USA 61/932,852 USA USA USA 61/932,852 USA USA USA USA 61/932,852 USA USA USA USA 61/932,852 USA USA USA USA 01/229,080 USA USA USA USA USA	MOBILE DEVICES	USA	61/933,887			141512	CS42398	15607
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EXPLICATE INTERIENT PRACTICE INTERIENT PRODUCTION NUMBER Application number Explication number Explica	MULTI-PROCESSOR SUPPORT FOR ARRAY IMAGERS	USA	61/932,852		1	141523	CS42369	15605
CC42288 141290 PERENT NUMBER	A CLIENT DEVICE	USA	61/969,810			141398	CS42359	15604
INDUSTRIBUTION INTERPRETATION INTERPRETATIO	METHOD AND ELECTRONIC DEVICE FOR GENERATING A CROWD-SOURCED ALERT	USA	61/955,758			141338		15603
CS42288 141290 Interest National Number Experimental Number Application Number LOLIVARY CS42288 141589 14/183,022 USA CS42296 141271 61/921,507 USA CS42296 141367 USA 61/973187 USA CS42306 141407 61/972,487 USA CS42310 141364 61/972,487 USA CS42311 141222 61/918,752 USA CS42312 141408 61/969,803 USA	MULTI-SPECTRAL IMAGE COMPRESSION	USA	61/920,798			141254		ــ
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CS42288 141290 Extension Maniper Exten	DISCOURAGING TEXT MESSAGING WHILE DRIVING	USA	61/918,752			141222	CS42311	15600
CS42288 141290 Faterix Number Submertation Number Submer	DISPLAY VIEWING DETECTION	USA	61/951,283			141364		
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CS42288 141290 Experimental framework Evaluation Number Experimental framework Experimental framew	FINGER PRINT STATE INTEGRATION WITH SENSOR HUB FOR POWER SAVINGS	USA	61/927,917			141407		
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CS42288 141290 Patent warmer Patent warmer Submatter Submatter Submitter Sub	Electronic Device with Display Manager Folio with Secondary Display and Methods Therefor	USA	14/183,022			141589	CS42288	15594
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