PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Ye Huang	10/24/2011
Jerry Kupsh	10/28/2011
Hugh Fletcher	10/27/2011
Amir Mayblum	11/04/2011

RECEIVING PARTY DATA

Name:	Cellco Partnership d/b/a Verizon Wireless	
Street Address:	One Verizon Way,	
City:	Basking Ridge	
State/Country:	NEW JERSEY	
Postal Code:	07920	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13291718

CORRESPONDENCE DATA

Fax Number: (202)756-8087 Phone: 703-351-3579 Email: patents@verizon.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

VERIZON PATENT MANAGEMENT GROUP Correspondent Name:

Address Line 1: 1320 North Court House Road

Address Line 2: 9th Floor

Address Line 4: ARLINGTON, VIRGINIA 22201-2909

ATTORNEY DOCKET NUMBER: 20110865 (050108-0579)

NAME OF SUBMITTER: Keith E. George

PATENT

REEL: 027193 FRAME: 0972

Total Attachments: 8

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RECORDATION FORM	1 COVER SHEET	
Docket No.: 20110865 (050108-0579) PATENTS		
To the Director of the U. S. Patent and Trademark Office: Please 1	ecord the attached documents or the new address(es) below.	
1. Name of Conveying Party(ies)	2. Name and address of receiving party(ies)	
Ye HUANG, Jerry KUPSH, Hugh FLETCHER, Amir	Name: Cellco Partnership d/b/a Verizon Wireless	
MAYBLUM		
	Internal Address:	
Additional name(s) of conveying party(ies) attached? Yes No		
3. Nature of Conveyance/Execution Date(s)	Address: One Verizon Way,	
Execution Date(s): October 24, 2011; October 28, 2011;	Basking Ridge, NJ 07920	
October 27, 2011 and November 4, 2011.		
respectively		
☐ Security Agreement ☐ Change of Name		
☐ Joint Research Agreement		
Government Interest Assignment		
Executive Order 9424, Confirmatory License		
4. Application or patent number(s):	☐ This document is being filed together with a new application.	
A. Patent Application No(s).	B. Patent No(s).	
7. Tatent Application 170(3).	B. Patent Po(5).	
5. Name and address to whom correspondence concerning	6. Total number of applications and patents	
document should be mailed:	involved:	
Name: MCDERMOTT WILL & EMERY LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00	
Internal Address:	Authorized to be charged by credit card	
	Authorized to be charged to deposit account	
Street Address: 600 13th Street, N.W.	☐ Enclosed	
	☐ None required (government interest not affecting title)	
City: Washington, State: DC Zip: 20005-3096		
D.C.		
Phone Number: 202.756.8000	8. Payment Information:	
Fax Number: 202.756.8087		
Email Address: mweipdocket@mwe.com	a. Credit Card Last 4 Numbers	
•	Expiration Date	
	b. Deposit Account Number 500417	
	Authorized User Name	
9. Signature.		
Keith E. George 34,111	November 8, 2011	
Name and Registration No. of Person Signing	Signature Date	
	ng cover sheet, attachments and documents:	
, com mander of pages include.	<u>Q</u>	

Verizon Invention Assignment for Verizon Reference No.: 20110865 Page 1 of 1

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

LOCATION-BASED BROADCAST MESSAGING TO MOBILE DEVICES LOCATED IN OR ENTERING INTO A DEFINED GEOGRAPHIC AREA

Which has been executed by the u I/we hereby authorize and request the Assignee, its insert here in the parentheses (Application Number _ date and application number of said application when here	, filed) the filing
which was filed on an	d assigned Application No.
and in and to said application, and all divisional, correissue, provisional, and all other applications for Let United States and all foreign countries on any of said i application; and in and to all original and reissued pate States and foreign countries from any of said applications the filing of any of said applications; and in and to Convention for the Protection of Industrial Property to	tters Patent which have been or shall be filed in the improvements or based on or claiming priority to said ents which have been or shall be issued in the United ons, and in and to all rights of priority resulting from all rights which may exist under the International
II. agree that said Assignee may apply for and receive Letters that, when requested, without charge to, but at the explegal representatives, to carry out in good faith the int will execute all divisional, continuing (in whole or in papplications on any and all said improvements; execute of attorney and other papers; communicate to said Assignee attorney and other papers; communicate to said improvements which said Assignee, its successor for aiding in securing and maintaining proper patent papers; to said improvements and all applications for Letters Pasaid Assignee, its successors and assigns; and	spense of, said Assignee, its successors, assigns and ent and purpose of this Assignment, the undersigned part), substitute, renewal, reissue, and all other patent e all rightful oaths, declarations, assignments, powers ignee, its successors, assigns, and representatives, all rements and the history thereof; and generally do rs, assigns or representatives shall consider desirable protection for said improvements and for vesting title
III. covenant with said Assignee, its successors, assigns an mortgage, license, or other agreement affecting the rig others by the undersigned, and that full right to convenience.	ghts and property herein identified has been made to
IN WITNESS to my/our agreement to the foregoing, I/we have	executed this Assignment as set forth below:
Verizon entity (Assignee): Cellco Partnership (d/b/a Veri Verizon Way, Basking Ridge, NJ 07920.	
ASSIGNORS: Signature: Ye Huang Signature: Jerry Kupsh Signature: Hugh Fletcher	Date: Date:
Signature:Amir Mayblum	Date:

State of California	j
County of Contra Costa	}
The state of the s	a Matan Material Robert
On 10/24/2011 before me, Kare	Here Insert Name and Title of the Officer
personally appeared Ye Huang	Name(s) of Signer(s)
KAREN MCINNIS Commission # 1902565 Notary Public - California Contra Costa County My Comm. Expires Sep 3, 2014	who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/ard subscribed to the within instrument and acknowledged to me that he/she/they- executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) 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.
Place Notary Seal Above	WITNESS my hand and official seal. Signature: Signature of Notary Public
Though the information below is not required by law and could prevent fraudulent removal and Description of Attached Document	w, it may prove valuable to persons relying on the document ad realtachment of this form to another document.
Title or Type of Document: ASSIGN WC	,
Document Date: 10/24/2011	Number of Pages:
Signer(s) Other Than Named Above:	
Signer's Name: Y HVQ \(\text{U}\)	Signer's Name:
☐ Corporate Officer — Title(s):	☐ Corporate Officer — Title(s):
Main Antion Ant	Signer's Name: Corporate Officer — Title(s): Individual Partner — Limited General Attorney in Fact Guardian or Conservator Other: Signer Is Representing:
Signer is Benracenting: 81	Signer Is Representing:

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I/We, the undersigned:

I. have sold, assigned and transferred, and by the presents do hereby sell, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire worldwide right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

LOCATION-BASED BROADCAST MESSAGING TO MOBILE DEVICES LOCATED IN OR ENTERING INTO A DEFINED GEOGRAPHIC AREA

	which has been executed by the u	ndersigned cond	currently herewith, a	nd in which case
	I/we hereby authorize and request the Assignee, its	successors, ass	igns and/or legal re	presentatives, to
	insert here in the parentheses (Application Number date and application number of said application when here	mown	mea) the ming
	date and application number of said application when i	alowii,		
	which was filed on an	d assigned Appl	ication No.	
	and in and to said application, and all divisional, or reissue, provisional, and all other applications for Le United States and all foreign countries on any of said i application; and in and to all original and reissued pate States and foreign countries from any of said applicati the filing of any of said applications; and in and to Convention for the Protection of Industrial Property to	ters Patent whi improvements or ents which have ons, and in and all rights which	ch have been or sha based on or claimin been or shall be issu to all rights of priori th may exist under	Il be filed in the ig priority to said and in the United ty resulting from
II. agre	that said Assignee may apply for and receive Letters that, when requested, without charge to, but at the explegal representatives, to carry out in good faith the int will execute all divisional, continuing (in whole or in papplications on any and all said improvements; execute of attorney and other papers; communicate to said Assignet said improvements which said Assignee, its successo for aiding in securing and maintaining proper patent patents and all applications for Letters Faid Assignee, its successors and assigns; and	epense of, said a ent and purpose part), substitute, all rightful oat ignee, its succes rements and the rs, assigns or re- protection for sa	Assignee, its success of this Assignment, renewal, reissue, and hs, declarations, assigns, and ree history thereof; a presentatives shall coid improvements and	sors, assigns and the undersigned d all other patent gnments, powers presentatives, all and generally do onsider desirable d for vesting title
III. cov	renant with said Assignee, its successors, assigns are mortgage, license, or other agreement affecting the rigothers by the undersigned, and that full right to convundersigned.	ghts and proper	y herein identified h	nas been made to
IN WIT	NESS to my/our agreement to the foregoing, I/we have	executed this A	ssignment as set fort	h below:
	entity (Assignee): Cellco Partnership (d/b/a Veri a Way, Basking Ridge, NJ 07920.	zon Wireless)	having a place of	business at One
ASSIGN	NORS:			
Signatur	re;	Date:		
Signatui	YAHyang I. A	Date: 10/6	166/86	
Ū	Jorry Kupsh		, ,	
Signatu	re: Hugh Fletcher	Date:		
Signatu		Date:		
	Amir Mayblum		•	

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Patent entitled

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[/•	Which has been executed by the we hereby authorize and request the Assignee,	its successors, a	issigns and/or legal	representatives, to
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	which was filed on	_ and assigned Ap	oplication No.	
re U ap Si th	nd in and to said application, and all divisional issue, provisional, and all other applications for nited States and all foreign countries on any of sapplication; and in and to all original and reissued ates and foreign countries from any of said application of any of said applications; and in and onvention for the Protection of Industrial Propert	Letters Patent waid improvements patents which ha ications, and in ard to all rights w	thich have been or or based on or clain we been or shall be nd to all rights of pr hich may exist und	shall be filed in the ming priority to said issued in the United iority resulting from
th le w aj o fr e fo to	that said Assignee may apply for and receive Le at, when requested, without charge to, but at the gal representatives, to carry out in good faith the ill execute all divisional, continuing (in whole or oplications on any and all said improvements; exert attorney and other papers; communicate to said acts known to undersigned relating to said improvements werything possible which said Assignee, its successor aiding in securing and maintaining proper pate to said improvements and all applications for Letter aid Assignee, its successors and assigns; and	te expense of, saile intent and purper in part), substituted all rightful of Assignee, its sucuprovements and tessors, assigns or ent protection for	d Assignee, its successe of this Assignmente, renewal, reissue, boths, declarations, accessors, assigns, and the history thereorepresentatives shaudi improvements	cessors, assigns and ent, the undersigned, and all other patent assignments, powers d representatives, all f; and generally do Il consider desirable and for vesting title
n 0	ant with said Assignee, its successors, assign nortgage, license, or other agreement affecting them there by the undersigned, and that full right to condersigned.	ne rights and prop	erty herein identific	ed has been made to
IN WITN	ESS to my/our agreement to the foregoing, I/we h	nave executed this	: Assignment as set	forth below:
	ntity (Assignee): Cellco Partnership (d/b/a Vay, Basking Ridge, NJ 07920.	Verizon Wireles	s) having a place	of business at One
ASSIGNO	DRS:			
Signature:		Date:		
Signature:	Ye Huang	Date:	ramananan ramaman and an analysis and an analy	
Signature:	Jerry Kupsh	Date: 🗠	£ 22, 2424	
	Hugh-Fletcher		,	
500 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Amir Mayblum	He-chomphassen control	and the second s	

State of California	
County of Carlia Codes	
On The Alexander before me, No. personally appeared the home	Here Insert Name and Title of the Officer Name(s) of Signer(s)
	who proved to me on the basis of satisfactor evidence to be the person(s) whose name(s) is/of subscribed to the within instrument and acknowledge to me that he/she/they executed the same his/her/their authorized capacity(ies), and that his/her/their signature(s) on the instrument to person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
KAREN MCINNIS Commission # 1902565 Notary Public - Cantorna Contra Costa Contry My Comm. Excited Rep. 3, 2014	I certify under PENALTY OF PERJURY under to laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal.
Piace Notary Seal Above	Signature: Signature of Notary Public

Title or Type of Document: Document Date: ____ Number of Pages: _ Signer(s) Other Than Named Above: _ Capacity(ies) Claimed by Signer(s) Signer's Name: Hvan Heards Eletaha Signer's Name: ☐ Corporate Officer — Title(s):___ □ Corporate Officer — Title(s): _ ☑ Individual Individual □ Partner — □ Limited □ General ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact ☐ Attorney in Fact ☐ Trustee ☐ Trustee Guardian or Conservator ☐ Guardian or Conservator ß. Other: _

Signer Is Representing: _

Signer Is Representing: $\underline{\mathbb{S}_{\ell}}$

item #5907

Verizon Invention Assignment for Verizon Reference No.: 20110865 Page 1 of 1

ASSIGNMENT

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LOCATION-BASED BROADCAST MESSAGING TO MOBILE DEVICES LOCATED IN OR ENTERING INTO A DEFINED GEOGRAPHIC AREA

	MICHAEA
I/we hereby authorize and request	n executed by the undersigned concurrently herewith, and in which case the Assignee, its successors, assigns and/or legal representatives, to dication Number, filed) the filing application when known.
which was filed	d on and assigned Application No.
United States and all other a United States and all foreign countri application; and in and to all origina States and foreign countries from an the filing of any of said applicatio	d all divisional, continuing (in whole or in part), substitute, renewal pplications for Letters Patent which have been or shall be filed in the less on any of said improvements or based on or claiming priority to said and reissued patents which have been or shall be issued in the United by of said applications, and in and to all rights of priority resulting from the said applications, and in and to all rights which may exist under the International sustrial Property to any of the foregoing;
legal representatives, to carry out in will execute all divisional, continuin applications on any and all said improf attorney and other papers; commufacts known to undersigned relating everything possible which said Assifor aiding in securing and maintaining	and receive Letters Patent for said improvements in its own name; and go to, but at the expense of, said Assignee, its successors, assigns and good faith the intent and purpose of this Assignment, the undersigned g (in whole or in part), substitute, renewal, reissue, and all other patent rovements; execute all rightful oaths, declarations, assignments, powers inicate to said Assignee, its successors, assigns, and representatives, all g to said improvements and the history thereof; and generally do gnee, its successors, assigns or representatives shall consider desirable and proper patent protection for said improvements and for vesting title titions for Letters Patent and all Letters Patent on said improvements, in igns; and
mongage, needse, or other agreemen	essors, assigns and legal representatives that no assignment, grant, at affecting the rights and property herein identified has been made to full right to convey the same as herein expressed is possessed by the
IN WITNESS to my/our agreement to the fore	egoing, I/we have executed this Assignment as set forth below:
Verizon entity (Assignee): Cellco Partner Verizon Way, Basking Ridge, NJ 07920.	ship (d/b/a Verizon Wireless) having a place of business at One
ASSIGNORS:	
Signature:	Date:
Jerry Kupsh Signature: Hugh Fletcher Signature: Amir Mayblum	Date: Date: Date:
V	

State of California County of Control	e Costa	s.s.
On		Mame of Signer (1)
is/are subscribed to the the same in his/her/their	within instrument and ac authorized capacity(ies	vidence to be the person(s) whose name(s) cknowledged to me that he/she/they execute), and that by his/her/their signature(s) on the alf of which the person(s) acted, executed the
I certify under PENALTY of the State of California true and correct. WITNESS my hand and c	that the foregoing parag	
Signature of Notary	· Public	Contr : Insta County My Comm Expres Nov. 13, 2014
Although the information in this this acknowledgment to an unatorial Description of Attached Ended The preceding Certificate of Acklocument titled/for the purpose	uthorized document and may p Document nowledgment is attached to	il could prevent fraudulent removal and realtachment of rove useful to persons relying on the attached document ACCIDIONALIMOTORIUM
ontaining pages, and da the signer(s) capacity or author Individual(s) Attorney-in-fact Corporate Officer(s)	ity is/are as:	Page # Entry # Notary contact:
	Tida(s)	Additional Signer Signer(s) Thumbprints(s)
☐ Guardian/Conservator ☐ Partner - Limited/General ☐ Trustee(s) ☐ Other:		

 $\ensuremath{\mathfrak{D}}$ 2010 Notary Learning Center - All Rights Reserved