501865498 03/26/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LILY F. CHEN	03/28/2007
MICHAEL F. LANE	04/06/2007
SAYYID SIDDIQ ALI	03/29/2007

RECEIVING PARTY DATA

Name:	Verizon Services Corp.
Street Address:	22001 Loudoun County Parkway
City:	Ashbum
State/Country:	VIRGINIA
Postal Code:	20147

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12683159

CORRESPONDENCE DATA

Fax Number: (703)351-3665 Phone: 703-351-3579

Email: eddy.valverde@verizon.com

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

Mail.

Correspondent Name: Verizon Patent Management Group

Address Line 1: 1320 N. Courthouse Road

Address Line 2: 9th Floor

Address Line 4: Arlington, VIRGINIA 22201

ATTORNEY DOCKET NUMBER: 04-8010C1

NAME OF SUBMITTER: Joseph R. Palmieri

Total Attachments: 3

source=04-8010C1_Assignment_2007#page1.tif source=04-8010C1_Assignment_2007#page2.tif source=04-8010C1_Assignment_2007#page3.tif

> PATENT REEL: 027924 FRAME: 0649

CH \$40.00 12683

Verizon Invention Assignment for Verizon Reference No.: 04-8010

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 right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

BANDWIDTH-ON-DEMAND SYSTEMS AND METHODS

I/we hereby authorize and request the Assignee,	ne undersigned concurrently herewith, and in which case its successors, assigns and/or legal representatives, to er, filed) the filingen known.
Which was filed on September	12, 2005, and assigned Application No. 11/224,515,
all other application for Letters Patent which have lead to countries on any of said improvements or based on patents which have been or shall be issued in the applications, and in and to all rights of priority restricts.	continuing, substitute, renewal, reissue, provisional, and been or shall be filed in the United States and all foreign said application; and in and to all original and reissued. United States and foreign countries from any of said ulting from the filing of any of said applications; and in ernational Convention for the Protection of Industrial
when requested, without charge to, but at the experience representatives, to carry out in good faith the intense execute all divisional, continuing, substitute, renewall said improvements; execute all rightful oaths communicate to said Assignee, its successors, assigned relating to said improvements and the history the Assignee, its successors, assigns or representative maintaining proper patent protection for said improvements.	ters Patent for improvements in its own name; and that, onse of, said Assignce, its successors, assigns and legal t and purpose of this Assignment, the undersigned will val, reissue, and all other patent application on any and assignments, powers of attorney and other papers; ons, and representatives, all facts known to undersigned recof; and generally do everything possible which said as shall consider desirable for aiding in securing and vements and for vesting title to said improvements and dimprovements, in said Assignee, its successors and
III. covenant with said Assignee, its successors, assigns mortgage, license, or other agreement affecting the others by the undersigned, and that full right to coundersigned.	and legal representatives that no assignment, grant, rights and property herein identified has been made to nvey the same as herein expressed is possessed by the
N WITNESS to my/our agreement to the foregoing, I/we have	e executed this Assignment as set forth below:
Verizon entity (Assignee): Verizon Scrvices Corp., having Arlington, VA 22201.	a place of business at 1310 North Court House Road,
ASSIGNORS:	
Signature: Lily F. Chen Lily F. Chen	Date: <u>3/28/07</u>
ignature: Michael F. Lane	Date:
Sayvid Siddig Ali	Date:
Sallia Sidoid Vili	

PATENT REEL: 027924 FRAME: 0650 GTE

781 4662846 P.02

Verizon Invention Assignment for Verizon Reference No.: 04-8010

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 right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

BANDWIDTH-ON-DEMAND SYSTEMS AND METHODS

	I/we hereby authorize and request the Assigned	the undersigned concurrently herewith, and in which case e, its successors, assigns and/or legal representatives, to ber, filed) the filing then known.
	Which was filed on September	er 12, 2005, and assigned Application No. 11/224,515,
	all other application for Letters Patent which have countries on any of said improvements or based patents which have been or shall be issued in tapplications, and in and to all rights of priority re	continuing, substitute, renewal, reissue, provisional, and be been or shall be filed in the United States and all foreign on said application; and in and to all original and reissued he United States and foreign countries from any of said esulting from the filing of any of said applications; and in international Convention for the Protection of Industrial
II. agr	when requested, without charge to, but at the ex- representatives, to carry out in good faith the int- execute all divisional, continuing, substitute, ren- all said improvements; execute all rightful out- communicate to said Assignee, its successors, as relating to said improvements and the history to Assignee, its successors, assigns or representat maintaining proper patent protection for said imp	etters Patent for improvements in its own name; and that, pense of, said Assignee, its successors, assigns and legal ent and purpose of this Assignment, the undersigned will ewal, reissue, and all other patent application on any and this, assignments, powers of attorney and other papers; signs, and representatives, all facts known to undersigned, hereof; and generally do everything possible which said ives shall consider desirable for aiding in securing and provements and for vesting title to said improvements and said improvements, in said Assignee, its successors and
III. cov	mortgage, license, or other agreement affecting t	ns and legal representatives that no assignment, grant, he rights and property herein identified has been made to convey the same as herein expressed is possessed by the
IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:		
	n entity (Assignee): Verizon Services Corp., havi on, VA 22201.	ng a place of business at 1310 North Court House Road,
ASSIG?	NORS:	
Signatu: Signatu: Signatu	re: Michael F. Lanc	Date:

PATENT TOTAL P. 022 REEL: 027924 FRAME: 0651

Verizon Invention Assignment for Verizon Reference No.: 04-8010 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 soll, assign, and transfer, to the Verizon legal entity identified below ("Assignee") and its successors and assigns, the entire right, title and interest in and to any and all improvements which are described in the application for United States Letters Patent entitled

BANDWIDTH-ON-DEMAND SYSTEMS AND METHODS

inș	e hereby authorize and request the Assignee, its	ndersigned concurrently herewith, and in which case successors, assigns and/or legal representatives, to, filed) the filing cnown.
	Which was filed on September 12,	2005, and assigned Application No. 11/224,515,
all cou pat app and	other application for Letters Patent which have been intries on any of said improvements or based on said ents which have been or shall be issued in the Unblications, and in and to all rights of priority resulting	tinuing, substitute, renewal, reissue, provisional, and n or shall be filed in the United States and all foreign id application; and in and to all original and reissued nited States and foreign countries from any of saiding from the filing of any of said applications; and in ational Convention for the Protection of Industrial
who repeated all conrelations and all	en requested, without charge to, but at the expense resentatives, to carry out in good faith the intent at seute all divisional, continuing, substitute, renewal, said improvements; execute all rightful oaths, a mmunicate to said Assignee, its successors, assigns, ating to said improvements and the history thereosignee, its successors, assigns or representatives sintaining proper patent protection for said improver	e Patent for improvements in its own name; and that, to of, said Assignee, its successors, assigns and legal and purpose of this Assignment, the undersigned will reissue, and all other patent application on any and assignments, powers of attorney and other papers; and representatives, all facts known to undersigned if; and generally do everything possible which said shall consider desirable for aiding in securing and ments and for vesting title to said improvements and improvements, in said Assignee, its successors and
mo oth	rtgage, license, or other agreement affecting the rig	d legal representatives that no assignment, grant, ghts and property herein identified has been made to be the same as herein expressed is possessed by the
IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:		
Verizon enti Arlington, V		place of business at 1310 North Court House Road,
ASSIGNOR	<u>.S:</u>	
Signature:		Date:
L Signature:	ily F. Chen	Date:
	Michael F. Lane Suddig Ali	Date: 3/29/07
	ayyid Sidain Ali	

PATENT REEL: 027924 FRAME: 0652

RECORDED: 03/26/2012