PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3532173

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the SPELLING OF THE THIRD INVENTOR'S FIRST NAME previously recorded on Reel 019142 Frame 0771. Assignor(s) hereby confirms the ASSIGNMENT.

CONVEYING PARTY DATA

Name	Execution Date
SHAFQAT CHOWDHURY	03/26/2007
JENNIFER BABU	03/13/2007
BENYAM CHEKOL	03/23/2007

RECEIVING PARTY DATA

Name:	VERIZON SERVICES CORP.
Street Address:	1320 NORTH COURTHOUSE ROAD
City:	ARLINGTON
State/Country:	VIRGINIA
Postal Code:	22201

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11691757

CORRESPONDENCE DATA

Fax Number: (703)351-3665

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.

703-351-3579 Phone:

Email: eddy.valverde@verizon.com

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:	VZ06017	
NAME OF SUBMITTER:	JOSEPH R. PALMIERI	
SIGNATURE:	/Joseph R. Palmieri, Reg. No. 40,760/	
DATE SIGNED:	09/18/2015	

Total Attachments: 4

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RECORDATION FORM COVER SHEET		
PATENTS ONLY		
To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.	
Name of conveying party(ies):	2. Name and address of receiving party(ies)	
Shafqat Chowdhury (3/26/2007), Jennifer Babu	Name: Verizon Services Corp.	
(3/13/2007), and Benyam Chekol (3/23/2007)	Internal Address:	
Additional name(s) of conveying party(ies) attached? Yes X No	Street Address:	
3. Nature of conveyance/Execution Date(s):		
Execution Date(s): in parentheses after inventor name	1515 North Courthouse Road, Suite 500	
X Assignment Merger Change of Name		
Security Agreement Joint Research Agreement	City: Arlington	
Government Interest Assignment	State: Virginia	
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 22201	
Other	Additional name(s) & address(es) Yes X No attached?	
4. Application or patent number(s): A. Patent Application No.(s) This application	his document is being filed together with a new application. B. Patent No.(s)	
Additional numbers attached?	Yes X No	
Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
Name: Verizon Legal Department Patent Management Group	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00	
Internal Address: Atty. Dkt.: VZ06017	Authorized to be charged by credit card	
Street Address: 1515 Courthouse Road	X Authorized to be charged to deposit account	
Suite 500	Enclosed	
	None required (government interest not affecting title)	
	Note required (government interest not anecting title)	
	8. Payment Information	
State: VA Zip: 22201	a. Credit Card Last 4 Numbers	
Phone Number: (703) 351-3586	Expiration Date	
Fax Number: (703) 351-3665	b. Deposit Account Number 18-0013	
Email Address: michael.wrenn@verizon.com	Authorized User Name Charles A. Bieneman	
9. Signature:		
/Charles A. Bieneman/	March 27, 2007	
Signature	Date	
Charles A. Bieneman - 51,472	Total number of pages including cover	
Name of Person Signing	sheet, attachments, and documents:	

Verizon Invention Assignment for Verizon Reference No.: VZ06017

Page 1 of 1

ASSIGNMENT

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

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

AUTOMATED NETWORK TESTING

which has been executed by I/we hereby authorize and request the Assigne	the undersigned con	ncurrently heres	with and in water
I/we hereby authorize and request the Assigne insert here in the parentheses (Application Num	e, its successors, as	signs and/or le	eal representatives to
insert here in the parentheses (Application Num date and application number of said application w	ber	, filed	the filing
and application was a said application w	hen known.		,
which was filed on	and assigned App	lication No.	
and in and to said application, and all divisional, all other application for Letters Patent which have countries on any of said improvements or based of patents which have been or shall be issued in the applications, and in and to all rights of priority reand to all rights which may exist under the In Property to any of the foregoing;	on said application; a set United States and sulting from the filin ternational Convent	and in the United and in and to all if foreign countring of any of said ion for the Pro-	States and all foreign original and reissued ries from any of said applications; and in steetien of Industrial
II. agree that said Assignee may apply for and receive Let when requested, without charge to, but at the expresentatives, to carry out in good faith the interexecute all divisional, continuing, substitute, renevall said improvements; execute all rightful oaths communicate to said Assignee, its successors, assignerelating to said improvements and the history the Assignee, its successors, assigns or representative maintaining proper patent protection for said improall applications for patents and all patents on said assigns; and	nt and purpose of the val, reissue, and all s, assignments, powars, and representations; and generally ss shall consider de	is Assignment, and the patent appointment of attorney vers of attorney ves, all facts kn do everything a sirable for aidi	rs, assigns and legal the undersigned will offication on any and and other papers; own to undersigned possible which said and in securing 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 con undersigned.	and legal represent rights and property l vey the same as her	atives that no herein identified rein expressed i	assignment, grant, I has been made to s possessed by the
IN WITNESS to my/our agreement to the foregoing, I/we have	executed this Assig	inment as set for	rth below:
Verizon entity (Assignee): Verizon Services Corp., having a Arlington, VA 22201.	place of business a	1 1310 North C	ourt House Road,
ASSIGNORS:			•
Signature: 13/11 (Condelling Shafqat Chowdhury	Date:	4/07	
	1		
Jennifer Babie	Date:		
Signature:	Date:		
Benyam Chekol	wate.	Mark and a second second second	

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Verizon Invention Assignment for Verizon Reference No.: VZ06017 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

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Which has been executed	by the undersigned concurrently he	
I/we hereby anthorize and request the Assig- insert here in the parentheses (Application No	ice, its successors, assigns and/o	rewith, and in which case
insert here in the parentheses (Application Nudate and application number of said application	mber filed	regar representatives, to
date and application number of said application	when known.	girlin sni (
	and assigned Application No.	
and in and to said application, and all division all other application for Letters Patent which hat countries on any of said improvements or based patents which have been or shall be issued in applications, and in and to all rights of priority and to all rights which may exist under the Property to any of the foregoing;	on said application; and in and to the United States and foreign col	ited States and all foreign all original and reissued untries from any of said
II. agree that said Assignee may apply for and receive I when requested, without charge to, but at the expresentatives, to carry out in good faith the in execute all divisional, continuing, substituta, renall said improvements; execute all rightful on communicate to said Assignee, its successors, as relating to said improvements and the history that Assignee, its successors, assigns or representate maintaining proper patent protection for said impaid applications for patents and all patents on sassigns; and	tent and purpose of this Assignme ewal, reissue, and all other patent this, assignments, powers of attorsigns, and representatives, all facts hereof; and generally do everything the shall consider desirable for the content of the c	essors, assigns and legal ont, the undersigned will application on any and oney and other papers; s known to undersigned age possible which said adding in securing and
111. covenant with said Assignee, its successors, assign mortgage, license, or other agreement affecting the others by the undersigned, and that full right to coundersigned.	s and legal representatives that e rights and property herein identi onvey the same as herein express	no assignment, grant, ified has been made to ed is possessed by the
IN WITNESS to my/our agreement to the foregoing, I/we have	eve executed this Assignment as se	et forth belowe
Verizon entity (Assignee): Verizon Services Corp., having Arlington, VA 22201.	a place of business at 1310 Nort	h Court House Road,
ASSIGNORS:		
Signature:	Date:	
Signature: Shafqar Chowdingry Roll		_
Jennifer Babu	Date: 3/13 /07	,
Signature: / Benyam Chekol	Date:	
original Character		

Verizon Invention Assignment for Verizon Reference No.: VZ06017 Page 1 of 1

ASSIGNMENT

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

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

AUTOMATED NETWORK TESTING

⊠which has been executed by the	c undersigned concurrently herewith, and in which case
I/we hereby authorize and request the Assignce.	its successors, assigns and/or legal representatives to
insert here in the parantheses (Application Numbe	r filed) the files
date and application number of said application whe	n known.
which was filed on	and assigned Application No.
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 resu	ontinuing, substitute, renewal, reissue, provisional, and een 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 lting from the filing of any of said applications; and in mational Convention for the Protection of Industrial
execute all divisional, continuing, substitute, renews all said improvements; execute all rightful oaths, communicate to said Assignee, its successors, assign relating to said improvements and the history there Assignee, its successors, assigns or representatives maintaining proper patent protection for said improvements.	ars Patent for improvements in its own name; and that, use of, said Assignee, its successors, assigns and legal and purpose of this Assignment, the undersigned will all, reissue, and all other patent application on any and assignments, powers of attorney and other papers; as, and representatives, all facts known to undersigned sof; and generally do everything possible which said shall consider desirable for aiding in securing and ements and for vesting title to said improvements and improvements, in said Assignee, its successors and
III. covenant with said Assignee, its successors, assigns a mortgage, license, or other agreement affecting the ri- others by the undersigned, and that full right to con- undersigned.	nd legal representatives that no assignment, grant, ights and property herein identified has been made to vey 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 entity (Assignee): Verizon Services Corp., having a Arlington, VA 22201	
ASSIGNORS:	
Signature:	Date:
Signature: Shafqat Chowdhury Signature:	A
O Jennifer Babu	Date:
Signature: Bessel Asset S Child	Date: 03/23/2007
V	

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RECORDED: 09/18/2015