PATENT ASSIGNMENT COVER SHEET

Electronic Version Stylesheet Version				EPAS ID:	PAT2650868
SUBMISSION TYPE:			NEW ASSIGNMENT		
NATURE OF CONVEYANCE:			ASSIGNMENT		
CONVEYING PART	Y DATA		·		
			lame	Execution Date	
BRANDON L. MULLOY				07/15/2010	
SUMMER WESTBROOK				07/13/2010	
RECEIVING PARTY	DATA				
Name:	VERIZON PATENT AND LICENSING INC.				
Street Address:	ONE VERIZON WAY				
City:	BASKING RID	BASKING RIDGE			
State/Country:	NEW JERSEY				
Postal Code:	07920				
PROPERTY NUMBERS Total: 1 Property Type		14107	Number		
CORRESPONDENC		14107			
Fax Number:	571				
Phone: Email:					
			llp.com <i>the email attempt is unsuccessful.</i>		
Correspondent Nam			CLARK, LESCH & CHUNG, LLP		e
Address Line 1: Address Line 4:			OON PARKWAY, SUITE 365 VIRGINIA 20170		
ATTORNEY DOCKET NUMBER:			20100089C1		
NAME OF SUBMITTER:			GARTH D. RICHMOND		
Signature:			/Garth D. Richmond, Reg. No. 43,044/		
Date:			12/17/2013		
Total Attachments: 2 source=20100089C1 source=20100089C1	_Assignment#page				

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

FILE MANAGEMENT AND TRANSFER USING A REMORA

Nwhich has been executed by the undersigned concurrently herewith, and in which case L/we hereby authorize and request the Assignee, its successors, assigns and/or legal representatives, to insert here in the parentheses (Application Number 12/838,749, filed July 19, 2010) the filing date and application number of said application when known.

which was filed on ______ and assigned Application No.

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all original from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;

- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent on said improvements, in said Assignee, its successors and assigns; and
- III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:

Venzon entity (Assignee): <u>Verizon Patent and Licensing, Inc.</u>, having a place of business at <u>One Verizon Way</u> Basking <u>Ridge</u>, New Jersey 07920.

ASSIGNORS:	
Signature: Brankon MULLOY	milles
Signature:	

Summer WESTBROOK

Date:

Date: 07.15.10

PATENT REEL: 031795 FRAME: 0679

Verizon Invention Assignment for Verizon Docket No.: 20100089 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

FILE MANAGEMENT AND TRANSFER USING A REMORA

Nwhich has been executed by the undersigned concurrently herewith, and in which case l/we hereby authorize and request the Assignee, its successors, assigns and/or logal representatives, to insert here in the parentheses (Application Number 12/838,749 filed July 19, 2010) the filing date and application number of said application when known.

which was filed on _____ and assigned Application No.

and in and to said application, and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements or based on or claiming priority to said application; and in and to all original and reissued patents which have been or shall be issued in the United States and foreign countries from any of said applications, and in and to all rights of priority resulting from the filing of any of said applications; and in and to all rights which may exist under the International Convention for the Protection of Industrial Property to any of the foregoing;

- II. agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing (in whole or in part), substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and representatives, all facts known to undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for Letters Patent and all Letters Patent on said improvements, in said Assignee, its successors and assigns; and
- III. covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein identified has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN WITNESS to my/our agreement to the foregoing, I/we have executed this Assignment as set forth below:

Verizon entity (Assignee): <u>Verizon Patent and Licensing, Inc.</u>, having a place of business at <u>One Verizon Way</u> Basking Ridge, New Jersey 07920.

ASSIGNORS:
Signature: Brandon MULLOY
Signature:
Cummer MASTBROOK

Date:

Date: 7/13/10

PATENT REEL: 031795 FRAME: 0680

RECORDED: 12/17/2013