

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5953500

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
WAEL GUIBENE	02/03/2020
UMAMAHESWAR ACHARI KAKINADA	02/03/2020
HOSSAM HMIMY	02/03/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CHARTER COMMUNICATIONS OPERATING, LLC
<b>Street Address:</b>	12405 POWERSCOURT DRIVE
<b>City:</b>	ST. LOUIS
<b>State/Country:</b>	MISSOURI
<b>Postal Code:</b>	63131
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16752480
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>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.</i>	
<b>Phone:</b>	7329361400
<b>Email:</b>	US_Docketing@straub-ip.com
<b>Correspondent Name:</b>	MICHAEL P. STRAUB
<b>Address Line 1:</b>	788 SHREWSBURY AVE
<b>Address Line 4:</b>	TINTON FALLS, NEW JERSEY 07724
<b>ATTORNEY DOCKET NUMBER:</b>	C-66
<b>NAME OF SUBMITTER:</b>	MICHAEL P. STRAUB
<b>SIGNATURE:</b>	/Michael P. STRAUB/
<b>DATE SIGNED:</b>	02/07/2020
<b>Total Attachments: 6</b>	
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**ASSIGNMENT**

WHEREAS, we, **Wael Guibene**, ASSIGNOR

a citizen of **Tunisia**, residing at **6343 East Girard Place, Apt. 404, Denver, CO 80222;**

**Hossam Hmimy**, ASSIGNOR

a citizen of the **US**, residing at **8185 South Vandriver Way, Aurora, CO 80016;**

**Umamaheswar Achari Kakinada**, ASSIGNOR

a citizen of the **USA**, residing at **7320 South Havana Street, Apt. 2043, Centennial, CO 80012;**

are the inventors of the invention in:

**METHODS AND APPARATUS TO COMMUNICATE WITH AN END POINT DEVICE**

for which an application for a Patent of the United States

was filed on January 24, 2020, as application Serial Number 16/752,480

and WHEREAS, Charter Communications Operating, LLC, a Delaware limited liability company, having a principal place of business at **12405 Powerscourt Drive, St. Louis, MO, 63131**, ASSIGNEE

is desirous of obtaining the entire right, title and interest in, to and under the invention and the application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, WE, the ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the ASSIGNEE, its successors,

legal representatives and assigns, the entire right, title and interest in, to and under the invention, and the United States application and all divisions, renewals and continuations (including all continuation-in-part applications) thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models and designs which have been or may hereafter be filed for the invention or claim the benefit of the application or any right of priority to the application, in any and all countries including any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from the United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for the invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

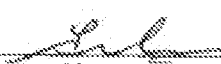
AND WE HEREBY further covenant and agree that we will communicate to the ASSIGNEE, its successors, legal representatives and assigns, any facts known to us regarding the invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all

rightful oaths, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for the invention in all countries.

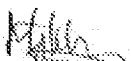
The undersigned hereby grant(s) the law firm of Straub & Straub, and any other representative of the Assignee, the power to: insert on this Assignment any further identification, including the application serial number and/or application filing date which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document and/or to insert the execution date of this assignment. The undersigned hereby further grant(s) the law firm of Straub & Straub, and its successors the power to make corrections to this assignment, including but not limited to corrections in the assignor information and the assignee information including the assignor name and/or address and the assignee name and/or address.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this  
03 day of Feb, 2019.

2020

  
Wael Guibene, Assignor

WITNESSED BY:

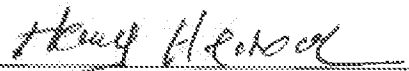
  
Witness signature

MUHAMMAD J KHAN  
Witness name (Please print)

6360 S FIDELITY CIRCLE  
Address

Greenwood Village, CO, 80111

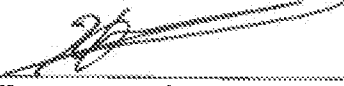
WITNESSED BY:

  
Witness signature

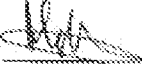
HAN Y HEIKAC  
Witness name (Please print)

Address

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this  
3<sup>rd</sup> day of Feb, 2019

  
.....  
**Hossam Hmimy, Assignor**

WITNESSED BY:

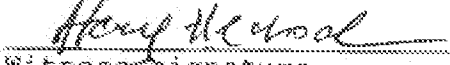
  
.....  
Witness signature

Muhammad J Khan  
.....  
Witness name (Please print)

6360 S Fiddlers Green Cir  
.....  
Address

Greenwood Village, CO, 80111  
.....

WITNESSED BY:

  
.....  
Witness signature

HANY HEIKAL  
.....  
Witness name (Please print)


.....  
Address  
.....

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this  
03 day of Feb, 2020



Umamaheswar Achari Kakinada, Assignor

WITNESSED BY:


  
Witness signature

Mohammad T Khan  
Witness name (Please print)

6260 S Fiddlers Green Cir  
Address

Greenwood Village CO 80111

WITNESSED BY:

  
Witness signature

HANU HEIDAL  
Witness name (Please print)

\_\_\_\_\_  
Address