PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6598238

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HUA ZHOU	03/17/2020
ESMAEL DINAN	03/16/2020
ALIREZA BABAEI	02/17/2021
ALI CAGATAY CIRIK	03/17/2020
HYOUNGSUK JEON	03/17/2020
KYUNGMIN PARK	03/16/2020
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RECEIVING PARTY DATA

Name:	COMCAST CABLE COMMUNICATIONS, LLC	
Street Address:	1701 JFK BOULEVARD	
City:	PHILADELPHIA	
State/Country:	PENNSYLVANIA	
Postal Code:	19103	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16785100

CORRESPONDENCE DATA

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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.

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ATTORNEY DOCKET NUMBER:	007412.04744
NAME OF SUBMITTER:	FREDERIC M MEEKER
SIGNATURE:	/Frederic M. Meeker/
DATE SIGNED:	03/12/2021

Total Attachments: 3

PATENT REEL: 055575 FRAME: 0893 source=4744 Executed Assignment - Inventors to Comcast#page1.tif source=4744 Executed Assignment - Inventors to Comcast#page2.tif source=4744 Executed Assignment - Inventors to Comcast#page3.tif

> PATENT REEL: 055575 FRAME: 0894

ASSIGNMENT

Attorney Docket No.: 007412.04744

Serial Number: 16/785,100 Filing Date: February 7, 2020 Inventors: Hua Zhou et al.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned hereby assign to:

COMCAST CABLE COMMUNICATIONS, LLC

having a place of business at 1701 JFK Boulevard, Philadelphia, PA 19103, its successors and assigns, the entire right, title and interest in the invention or improvements (including but not limited to all non-provisional, divisional, continuation, continuation-in-part, continuing prosecution applications, requests for continuing examinations, reissue, and substitute applications worldwide; all extensions of such applications; and all patent applications, patents, and/or other similar governmental grants or issuances worldwide that directly or indirectly claims or forms a basis for claiming priority thereto) of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

UPLINK SIGNAL CONTROL

and identified as Attorney Docket No. 007412.04744 in the offices of Banner & Witcoff, Ltd. and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements (including but not limited to all non-provisional, divisional, continuation, continuation-in-part, continuing prosecution applications, requests for continuing examinations, reissue, and substitute applications worldwide; all extensions of such applications; and all patent applications, patents, and/or other similar governmental grants or issuances worldwide that directly or indirectly claims or forms a basis for claiming priority thereto), and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements (including but not limited to all non-provisional, divisional, continuation, continuation-in-part, continuing prosecution applications, requests for continuing examinations, reissue, and substitute applications worldwide; all extensions of such applications; and all patent applications, patents, and/or other similar governmental grants or issuances worldwide that directly or indirectly claims or forms a basis for claiming priority thereto) and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations and without additional charge the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all non-provisional, divisional, continuation, continuation-in-part, continuing prosecution applications, requests for

PATENT REEL: 055575 FRAME: 0895 continuing examinations, relisate, and substitute applications worldwide, all extensions of sociapplications, and all parent applications, parents and or other sinalia parentmental grants or restances worldwide that directly or archivesty climate in toring a costs on clausing priority therein Telesaid incertaint to improvements, and any mecessary tour, articles it of ricel materials thereto, and my application for the feliante or extension of any 1 yiers Pagent that may be granted upon and application and any and all applications and other discontinuous for Letters Patent in forecast countries on said inventions a improvement. that said assigned, its anecessors or assigns out door necessary or expedient, and for the said considerations and without additional aborne the undersigned authorize said assignee to apply for putents for said invention or imprevenents in its own name in such compries about such procedure is proper and further agree, apport the exquest of and without auditornal charge in and assigned, its successors and assigns to cooperate to the best of the shifty of the toutersqued with said assigned, its successors and assigns, in any proceedings or maisterious incideing such applications or paterns, ascinding the preparation and execution of prefirmings, statements, giving and predicting exidence, and performing any and all other acts greessars to obtain maintain and embired and Letters Patent, 16th United Status and foreign, and so call rights therein hereby conveyed in the assigned at successors and assigns, wherein said i often Patent will be held and enjoyed by the said assigner as successors and assigns, to the held end of the term for a facilisaid Letters Patent will be granted as fully and cathrely as the same would have been held and entered by the diplersigned if this assistance of had not been made.

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RECORDED: 03/12/2021