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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| HUA ZHOU | 03/17/2020 |
| ESMAEL HEJAZI 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 |
| KAI XU | 03/16/2020 |

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: | 17689024 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 007412.05694\US |
|-------------------------|-----------------|
| NAME OF SUBMITTER: | HENGYI JIANG |
| SIGNATURE: | /Hengyi Jiang/ |
| DATE SIGNED: | 04/13/2023 |

PATENT REEL: 063313 FRAME: 0193

Total Attachments: 4

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PATENT REEL: 063313 FRAME: 0194

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: 063313 FRAME: 0195 continuing examinations, reissue, and substitute applications worldwide, all extensions of sach applications, and all patent applications, patents, and/or other similar governmental grants or issuances worldwide that directly or indirectly a launs or forms a bank for claiming priority thereto, for said invention or improvements, and any necessary path, affidave or declaration relating therein, and any application for the russue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements. that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations and without additional charge the understaned authorize said assigned to apply for patents for said invention or improvements in its own name in much countries where such procedure is proper and further agree, upon the request of and without additional charge to said assignee, its successors and assigns, to cooperate to the best of the ability of the understand with said assignce, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and entorer said Lebers Patent, both United States and foreign, and vest all rights therein herely consisted in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors mel assigns, to the full end of the term for which said Letters Patein will be granted, as fully and entirely as the same would have been held and entoyed by the undersigned if this assistment had not been made.

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continuing examinations, relisant, and substitute applications worldwide, all extensions of subapplications, and all patent applications, patents and or other sinalin passermicians grants or restautees 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 reliance or extension of any 1 yiers Pagent that may be granted upon said implication 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 impressing the street of the said of the street of the said of the s further agree, upon the exquest of and without additional charge to and assignee, it successars 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 involving such applications or paterns, metadam the preparation and execution of prefirmings, sintements, giving and predicting exidence, and performing any mid all other day necessars to obtain maintain and embired and Letters Patent, posts United Status and foreign, and so call rights therein hereby conveyed in the assignee at successors and assigns, wherein said foliotic 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 bud not been made.

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