

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CHARLES W. BOYLE	12/05/2019
SURYA KUMAR KOVVALI	12/08/2019
NIZAR K. PURAYIL	12/20/2019
VSEVOLOD V. OSTAPENKO	12/06/2019
MAHESH KUMARAVEL	12/17/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	RIBBON COMMUNICATIONS OPERATING COMPANY, INC.
<b>Street Address:</b>	4 TECHNOLOGY PARK DR.
<b>City:</b>	WESTFORD
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01886
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16962822
<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>Email:</b>	marcella.thompson@haynesboone.com
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<b>ATTORNEY DOCKET NUMBER:</b>	47856.169US01
<b>NAME OF SUBMITTER:</b>	MARCELLA THOMPSON
<b>SIGNATURE:</b>	/Marcella Thompson/
<b>DATE SIGNED:</b>	03/09/2022
<b>Total Attachments: 3</b>	
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**ASSIGNMENT**

WHEREAS, we,

- (1) Charles W. Boyle of Upton, Massachusetts, USA
- (2) Surya Kumar Kovvali of Plano, Texas, USA
- (3) Nizar K. Purayil of Bangalore, INDIA
- (4) Vsevolod V. Ostapenko of Boxborough, Massachusetts, USA
- (5) Mahesh Kumaravel of Bengaluru, INDIA

have invented certain improvements in

**TELECOMMUNICATION EVENT OBJECT CLASSIFICATION BASED ON  
INFORMATION FROM MULTIPLE PTOTOCOLS**

The application of which is attached hereto; or

Was filed on [7/16/2020] as United States Application Number [16/962,822].

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, **RIBBON COMMUNICATIONS OPERATING COMPANY, INC.** (Assignee), having its principal office and place of business at 3605 E. Plano Parkway, Plano, Texas 75074 is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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

AND WE HEREBY covenant that we have full right to convey the entire interest herein 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 said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

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Inventor Name: Charles W. Boyle

Dated: 12/5/2019 \_\_\_\_\_

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Inventor Name: Surya Kumar Kovvali

Dated: 12/8/2019 \_\_\_\_\_

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037082AEEEE9D4EF...

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Inventor Name: Nizar K. Purayil

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Inventor Name: Vsevolod V. Ostapenko

Dated: 12/6/2019 \_\_\_\_\_

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85D39D05E8EA462...

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Inventor Name: Mahesh Kumaravel

Dated: 12/17/2019

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