505096402 09/17/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5143162

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------|----------------|
| GAGAN JAIN | 09/14/2018 |

RECEIVING PARTY DATA

| Name: | ARRIS ENTERPRISES LLC |
|-----------------|-----------------------|
| Street Address: | 3871 LAKEFIELD DRIVE |
| City: | SUWANEE |
| State/Country: | GEORGIA |
| Postal Code: | 30024 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16132585 |

CORRESPONDENCE DATA

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Address Line 4: HORSHAM, PENNSYLVANIA 19044

| ATTORNEY DOCKET NUMBER: | RUC0133 |
|-------------------------|---------------------|
| NAME OF SUBMITTER: | STEWART M. WIENER |
| SIGNATURE: | /Stewart M. Wiener/ |
| DATE SIGNED: | 09/17/2018 |

Total Attachments: 2

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PATENT 505096402 REEL: 046886 FRAME: 0464

Docket RUC0133 Patent Application

ASSIGNMENT

| WHEREAS I, | Gagan Jain, (hereinafter collectively referred to as ASSIGNOR), have invented certain |
|----------------|--|
| ínventíons an | ${\bf d} \ {\bf improvements} \ {\bf entitled} \ "SELECTIVE \ PROBE-RESPONSE \ {\bf SUPPRESSION}" \ {\bf disclosed}$ |
| in Patent Doc | ket Number RUC0133, and we hereby authorize and request a designated attorney |
| associated wit | ch Customer No. 21924, to insert here in parentheses (Application Number |
| filed |) the application number and filing date of said application when known; as filed in |
| the United St | ates Patent and Trademark Office; and as described, illustrated and claimed in the |
| following appl | lications: U.S. Provisional Application No. 62/559539, filed on September 16, 2017, and |

WHEREAS, ARRIS Enterprises LLC, a limited liability company formed under the laws of Delaware, having a principal place of business at 3871 Lakefield Drive, Suwanee, Georgia 30024 (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to, and under said invention and the United States Letters Patent to be obtained therefore:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNORS hereby sell, assign, and transfer to ASSIGNEE the full and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefore on said patent application, design patent application, or any continuation, continuation-in-part, divisional, reexamination, renewal, substitute, or reissue thereof and in and to all Letters Patent and all Convention and Treaty rights of all kinds, in all countries throughout the world for said invention for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNOR will promptly provide ASSIGNEE, upon its request, with all pertinent facts and documents relating to said application, said invention, and said Letters Patent as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments, or affidavits required to apply for, obtain, maintain, and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

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Printed

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| Docket RUC01 | 33 | Patent Application |
|---------------------|--|-----------------------|
| 09 14 2.61 Date | 8 Gagan Jain | |
| WITNESS#1: | OG S. U. DATE: Sep. 14. 2018 Signature | |
| | Sangho Chang Printed | |
| WITNESS#2: | DATE: | |
| | SAMEER THALAPPIL | |