

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LIMIN WANG	02/29/2016
SEUNGWOOK HONG	02/25/2016
RECEIVING PARTY DATA	
Name:	ARRIS Enterprises, Inc.
Street Address:	3871 Lakefield Drive
Internal Address:	
City:	Suwanee
State/Country:	GEORGIA
Postal Code:	30024
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15011410
CORRESPONDENCE DATA	
Fax Number:	(678)473-8095
<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>	
Phone:	(678)473-8697
Email:	arrisdocketing@arris.com
Correspondent Name:	ARRIS GROUP, INC,
Address Line 1:	3871 LAKEFIELD DRIVE
Address Line 4:	SUWANEE, GEORGIA 30024
ATTORNEY DOCKET NUMBER:	ARR00484B
NAME OF SUBMITTER:	THOMAS A. WARD
SIGNATURE:	/Thomas A. Ward/
DATE SIGNED:	03/02/2016
Total Attachments: 3	
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source=Assignment_executed_ARR00484B#page3.tif	

ASSIGNMENT

WHEREAS we, Limin Wang, Seungwook Hong, (hereinafter collectively referred to as ASSIGNOR), have invented certain inventions and improvements entitled "Picture-Level QP Rate Control Performance Improvements for HEVC Encoding" disclosed in Patent Application Number 15011410 filed in the United States Patent and Trademark Office on January 29, 2016; U.S. Provisional Application No. 62109162, filed on January 29, 2015; U.S. Provisional Application No. 62/116976, filed on February 17, 2015; U.S. Provisional Application No. 62117131, filed on February 17, 2015; U.S. Provisional Application No. 62/117581, filed on February 18, 2015; U.S. Provisional Application No. 62/117584, filed on February 18, 2015; U.S. Provisional Application No. 62/152205, filed on April 24, 2015; U.S. Provisional Application No. 62/152223, filed on April 24, 2015; U.S. Provisional Application No. 62/152240, filed on April 24, 2015; and;

WHEREAS, ARRIS Enterprises, Inc., a corporation 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.

Limin Wang DATE 02/29/2016
Limin Wang

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of the document.

State of California)
County of San Diego)ss

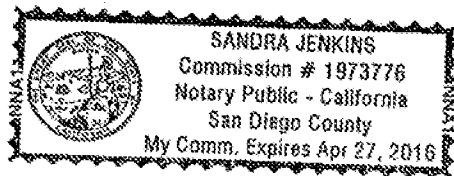
On Feb 29, 2016, before me, Sandra Jenkins, Notary Public
Date Name of Notary Public
personally appeared Limin Wang
Name(s) of Signer(s)

Who proved to me on the basis of satisfactory evidence to be the person(s) who name(s) is are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies); and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Sandra Jenkins
Signature of Notary Public



Place Notary Seal Above

Seungwook Hong DATE 02/25/2016

Seungwook Hong

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of the document.

State of California)
County of San Diego)ss

On Feb 25, 2016, before me, Sandra Jenkins, Notary Public
Date Name of Notary Public
personally appeared Seungwook Hong
Name(s) of Signer(s)

Who proved to me on the basis of satisfactory evidence to be the person(s) who name(s) is are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Sandra Jenkins
Signature of Notary Public

Place Notary Seal Above

