503153110 01/27/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3199723

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| BRENDA VAN VELDHUISEN | 01/26/2015 |

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: | 14581108 |

CORRESPONDENCE DATA

Fax Number: (678)473-8095

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.

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: | ARR00211 |
|-------------------------|------------------------|
| NAME OF SUBMITTER: | LORI ANNE D. SWANSON |
| SIGNATURE: | /Lori Anne D. Swanson/ |
| DATE SIGNED: | 01/27/2015 |

Total Attachments: 2

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PATENT 503153110 REEL: 034822 FRAME: 0469

Patent Application

Docket ARR00211

ASSIGNMENT

WHEREAS I, Brenda Van Veldhuisen, (hereinafter collectively referred to as ASSIGNOR), have

invented certain inventions and improvements entitled "ADAPTIVE STREAMING TRANSCODER

SYNCHRONIZATION" disclosed in Patent Application Number 14/581108 filed in the United States

Patent and Trademark Office on December 23, 2014; and as described, illustrated and claimed in the

following applications: U.S. Provisional Application No. 62/020118, filed on July 2, 2014, entitled

"Adaptive Streaming Transcoder Synchronization"; 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.

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PATENT REEL: 034822 FRAME: 0470

Svada valleldhugz enda Van Veldhusen

WITNESS#1: |

Nuhdus Van Vahuusen

WITNESS#2: A MANOSON DATE: 1/34//5
Signature

Christing Novoson

Printed

PATENT

REEL: 034822 FRAME: 0471

RECORDED: 01/27/2015