505237984 12/14/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YAIR NEUGEBOREN	11/19/2018
ELIEZER BARUCH	11/19/2018
IAN G. WHEELOCK	11/19/2018

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:	16220758

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Address Line 4: HORSHAM, PENNSYLVANIA 19044

ATTORNEY DOCKET NUMBER:	ARR01575
NAME OF SUBMITTER:	LORI ANNE D. SWANSON
SIGNATURE:	/Lori Anne D. Swanson/
DATE SIGNED:	12/14/2018

Total Attachments: 4

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PATENT REEL: 047782 FRAME: 0008 505237984

ASSIGNMENT

WHEREAS we, Yair Neugeboren, Eliezer Baruch, Ian G. Wheelock, (hereinafter collectively referred to
as ASSIGNOR), have invented certain inventions and improvements entitled "TIMING
SYNCHRONIZATION OVER CABLE NETWORKS" disclosed in Patent Docket Number ARR01575,
and we hereby authorize and request a designated attorney associated with 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 States
Patent and Trademark Office; 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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Docket ARI	-i ý	Yair Neugeboren	Paten Application
WITNESS#	Signature	DATE: 11/19/18	
WITNESS#	2:Signature /Gor \ Ronen (Gor \) Printed	DATE: 11/19/18	
Date		Eliezer Baruch	
WITNESS#1	: Signature	DATE:	
	Printed		
WITNESS#2:	Signature	DATE:	
	Printed		

Patent Application

WITNESS#2:

___ DATE: <u>[(· 2· ·/3</u>

Signature

Signature

Michal Barren Printed

Hagar Baruch Printed

10	1-Nov-	20	18
	Date		

lan Wheelock,

WITNESS#1:

Signature

DAMIEN TUPFY

Printed

WITNESS#2:

Signature DATE: _

EDDIE KELLY

Printed