## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
TELL GATES	05/20/2019
RONALD HIRSCH	05/20/2019

## **RECEIVING PARTY DATA**

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City:	HERNDON
State/Country:	VIRGINIA
Postal Code:	20171

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16416500

## **CORRESPONDENCE DATA**

Fax Number:

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Correspondent Name: DAN FIUL WATSON IP GROUP

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ATTORNEY DOCKET NUMBER:	EDG191507
NAME OF SUBMITTER:	DAN FIUL
SIGNATURE:	/Dan Fiul/
DATE SIGNED:	05/20/2019

**Total Attachments: 2** 

source=EDG191507-Assignment-Ron#page1.tif source=EDG191507-Assignment-Tell#page1.tif

PATENT 505483864 REEL: 049226 FRAME: 0312

FOR VALUE RECEIVED, the receipt of which is hereby acknowledged, the following original, joint inventor (hereinafter called 'ASSIGNOR'). Ronald Hirsch hereby assigns, transfers and sets over to the following entity (hereinafter called 'ASSIGNEE'):

> Edge2020 LLC 12470 Manderley Way Herndon, Virginia 20171

all worldwide right, title and interest in and to the invention and improvements known as:

# HYBRID VIDEO TIME-BANDWIDTH PRODUCT IMPROVEMENT (HYTBPI) TRANSMISSION

including any and all patent applications related thereto including, but not limited to all provisional, nonprovisional, divisional, continuation, continuation-in-part, substitute, reexamination, reissue and other applications which have been or shall be filed with the United States or elsewhere in the world, any patent rights which may be granted based thereon, including all rights of priority created by the above patent application under any treaty, convention or law relating thereto.

- (1) The ASSIGNOR agrees without charge to said ASSIGNEE but at ASSIGNEE's expense (a) to execute (i) all necessary papers to be used in connection with this application and any additional, continuing, or divisional applications, as the ASSIGNEE may deem necessary or expedient. (ii) all papers in connection with any interference or other legal or quasilegal proceedings relating to this application or any additional, continuing, or divisional application thereof, (iii) all papers and documents which may be necessary in connection with the preparation and filing of any foreign applications or with making claims to priority rights granted under the provisions of the International Convention for Protection of Industrial Property or similar agreements: (b) to cooperate with ASSIGNEE in every way possible in obtaining evidence and going forward in any such proceedings; and (c) to perform all other affirmative acts which may be necessary or desirable to obtain a grant of a valid patent for said invention in any country throughout the world.
- (2) ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and the appropriate officials in any other country, to issue any and all Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successors and assigns.
- (3) ASSIGNOR hereby covenants and warrants that they have full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.
- (4) ASSIGNOR hereby grants to the law firm of THE WATSON IP GROUP, PLC, authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent Office or the Patent Office of any foreign country.

ASSIGNOR:

Date: 20 May 2019

Signature of Inventor: County | Signature of Inventor: Ronald Hirsch

WIPG DOCKET NO.: EDG191507

FOR VALUE RECEIVED, the receipt of which is hereby acknowledged, the following original, joint inventor (hereinafter called 'ASSIGNOR'): <u>Tell Gates</u> hereby assigns, transfers and sets over to the following entity (hereinafter called 'ASSIGNEE'):

Edge2020 LLC 12470 Manderley Way Herndon, Virginia 20171

all worldwide right, title and interest in and to the invention and improvements known as:

# HYBRID VIDEO TIME-BANDWIDTH PRODUCT IMPROVEMENT (HVTBPI) TRANSMISSION

including any and all patent applications related thereto including, but not limited to all provisional, non-provisional, divisional, continuation, continuation-in-part, substitute, reexamination, reissue and other applications which have been or shall be filed with the United States or elsewhere in the world, any patent rights which may be granted based thereon, including all rights of priority created by the above patent application under any treaty, convention or law relating thereto.

- (1) The ASSIGNOR agrees without charge to said ASSIGNEE but at ASSIGNEE's expense (a) to execute (i) all necessary papers to be used in connection with this application and any additional, continuing, or divisional applications, as the ASSIGNEE may deem necessary or expedient, (ii) all papers in connection with any interference or other legal or quasilegal proceedings relating to this application or any additional, continuing, or divisional application thereof, (iii) all papers and documents which may be necessary in connection with the preparation and filing of any foreign applications or with making claims to priority rights granted under the provisions of the International Convention for Protection of Industrial Property or similar agreements; (b) to cooperate with ASSIGNEE in every way possible in obtaining evidence and going forward in any such proceedings; and (c) to perform all other affirmative acts which may be necessary or desirable to obtain a grant of a valid patent for said invention in any country throughout the world.
- (2) ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and the appropriate officials in any other country, to issue any and all Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successors and assigns.
- (3) ASSIGNOR hereby covenants and warrants that they have full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.
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Date: (120/19

ASSIGNOR:

Signature of Inventor:

Name of Inventor:

Tell Gates

PATENT REEL: 049226 FRAME: 0314

**RECORDED: 05/20/2019**