

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6885481

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FLORIDA ATLANTIC UNIVERSITY RESEARCH CORPORATION ("FAURC")	07/30/2021

RECEIVING PARTY DATA

Name:	OP SOLUTIONS, LLC
Street Address:	368 MIDDLE STREET
City:	AMHERST
State/Country:	MASSACHUSETTS
Postal Code:	01002

PROPERTY NUMBERS Total: 20

Property Type	Number
Application Number:	17332027
Application Number:	17332131
Application Number:	17297120
Application Number:	17386126
Application Number:	17386840
Application Number:	17386210
Application Number:	17387037
Application Number:	17357183
PCT Number:	US2127072
Application Number:	17229210
PCT Number:	US2130069
Application Number:	17245073
PCT Number:	US2127183
Application Number:	17229957
Application Number:	63178352
Application Number:	63208241
Application Number:	63197834
Application Number:	63214126
Application Number:	63218732
Application Number:	63220326

PATENT

CORRESPONDENCE DATA**Fax Number:**

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: 6175773963**Email:** docketing@caldwellip.com**Correspondent Name:** CALDWELL INTELLECTUAL PROPERTY LAW, LLC**Address Line 1:** 200 CLARENDON STREET, 59TH FLOOR**Address Line 4:** BOSTON, MASSACHUSETTS 02116

NAME OF SUBMITTER:	KEEGAN M. CALDWELL
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SIGNATURE:	/KEEGAN M. CALDWELL/
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DATE SIGNED:	08/26/2021
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Total Attachments: 3

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ASSIGNMENT

We, Florida Atlantic University Research Corporation ("FAURC"), Boca Raton, FL, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assign, sell and transfer to OP Solutions, LLC, a Massachusetts limited liability company with offices in Amherst, Massachusetts, and to its successors, assigns and legal representatives, collectively hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries as assigned to FAURC by Borivoje Furht, and Hari Kalva, in and to the inventions and discoveries and applications which are disclosed in the applications for United States Letters Patent identified in Appendix "A" attached hereto; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names as the ASSIGNEE, or its designee's election, on the aforesaid inventions and discoveries in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are reasonably necessary to secure patent protection on said inventions and discoveries throughout all countries of the world, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be reasonably necessary.

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

We further covenant that ASSIGNEE will upon its request, be provided promptly with all pertinent facts and documents relating to Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR, and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

ASSIGNEE acknowledges that ASSIGNOR has taken no steps to obtain legal protection for the above-described invention or discovery, and ASSIGNOR makes no representations as to their patentability.

ASSIGNEE represents that Dr. Velibor Adzic is a consultant to ASSIGNEE, and ASSIGNEE acknowledges that ASSIGNOR has not received any title right or interest in the aforementioned invention from Dr. Velibor Adzic.

The parties agree that this ASSIGNMENT shall not be considered an amendment or modification per section 11.6 of the Sponsored Research Agreement between the parties with a last signature date of March 30, 2018, and that this Assignment does not modify that Agreement in any other respect.

Date: 7/30/21

Daniel C. Flynn

Digitally signed by Daniel C. Flynn
DN: cn=Daniel C. Flynn, o=Florida Atlantic
University, ou, email=flynd@fau.edu, c=US
Date: 2021.07.30 15:23:11 -04'00'

Daniel Flynn
President
Florida Atlantic University
Research Corporation [ASSIGNOR] Boca
Raton, FL
This ASSIGNMENT is approved for use by
FAURC as to form and legality. If it
remains unchanged, it requires no further
legal review.

Date: 8/11/2021

DocuSigned by:
Robert Moore
Robert Moore
President
OP Solutions, LLC [ASSIGNEE]
368 Middle Street, Amherst, MA 01002

Appendix A:

Docket No.	Application No.	Date Filed	Application Title
1097-012USU1	17/332,027	5/27/2021	BLOCK-BASED PICTURE FUSION FOR CONTEXTUAL SEGMENTATION AND PROCESSING
1097-013USU1	17/332,131	5/27/2021	BLOCK-BASED SPATIAL ACTIVITY MEASURES FOR PICTURES
1097-014USU1	17/297,120	5/26/2021	ADAPTIVE TEMPORAL FILTER FOR AN UNAVAILABLE REFERENCE PICTURE
1097-016USU1	17/386,126	7/27/2021	SHAPE ADAPTIVE DISCRETE COSINE TRANSFORM FOR GEOMETRIC PARTITIONING WITH AN ADAPTIVE NUMBER OF REGIONS
1097-017USU1	17/386,840	7/28/2021	INTER PREDICTION IN EXPONENTIAL PARTITIONING
1097-019USU1	17/386,210	7/27/2021	EXPLICIT SIGNALING OF EXTENDED LONG TERM REFERENCE PICTURE RETENTION
1097-020USU1	17/387,037	7/28/2021	ONLINE AND OFFLINE SELECTION OF EXTENDED LONG TERM REFERENCE PICTURE RETENTION
1097-025USC1	17/357,183	6/24/2021	GLOBAL MOTION MODELS FOR MOTION VECTOR INTER PREDICTION
1097-038PCT1	PCT/US21/27072	4/13/2021	METHODS AND SYSTEMS FOR COMBINED LOSSLESS AND LOSSY CODING
1097-038USU1	17/229,210	4/13/2021	METHODS AND SYSTEMS FOR COMBINED LOSSLESS AND LOSSY CODING
1097-039PCT1	PCT/US21/30069	4/30/2021	METHODS AND SYSTEMS FOR COMBINED LOSSLESS AND LOSSY CODING
1097-039USU1	17/245,073	4/30/2021	METHODS AND SYSTEMS FOR COMBINED LOSSLESS AND LOSSY CODING
1097-040PCT1	PCT/US21/27183	4/14/2021	METHODS AND SYSTEMS OF VIDEO CODING USING REFERENCE REGIONS
1097-040USU1	17/229,957	4/14/2021	METHODS AND SYSTEMS OF VIDEO CODING USING REFERENCE REGIONS
1097-045USP1	63/178,352	4/22/2021	METHODS AND SYSTEMS FOR HYBRID FEATURE VIDEO BITSTREAM AND DECODER
1097-046USP1	63/208,241	6/8/2021	VIDEO CODING FOR MACHINES (VCM) ENCODER FOR COMBINED LOSSLESS AND LOSSY ENCODING
1097-047USP1	63/197,834	6/7/2021	VIDEO CODING FOR MACHINES (VCM) ENCODER
1097-048USP1	63/214,126	6/23/2021	SYSTEMS AND METHODS FOR ORGANIZING AND SEARCHING A VIDEO DATABASE
1097-049USP1	63/218,732	7/6/2021	SYSTEMS AND METHODS FOR MEMORY-EFFICIENT PREDICTION MODE SELECTION
1097-050USP1	63/220,326	7/9/2021	SYSTEMS AND METHODS FOR DECODER-SIDE SYNTHESIS OF VIDEO SEQUENCES

PATENT**RECORDED: 08/26/2021****REEL: 057299 FRAME: 0242**