

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FLORIDA ATLANTIC UNIVERSITY RESEARCH CORPORATION ("FAURC")	10/25/2021

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 23

Property Type	Number
Application Number:	62856339
PCT Number:	US1938499
Application Number:	62883503
Application Number:	62883484
Application Number:	62883480
Application Number:	62883459
Application Number:	62883454
Application Number:	62883407
Application Number:	62932597
PCT Number:	US1963707
PCT Number:	US1963704
PCT Number:	US1963698
PCT Number:	US1963694
Application Number:	63009978
Application Number:	17394511
Application Number:	63235552
Application Number:	63235438
PCT Number:	US2147927
PCT Number:	US2147902
PCT Number:	US2147886

PATENT

Property Type	Number
PCT Number:	US2147857
Application Number:	63249984
Application Number:	63252266

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
Address Line 2: 59TH FLOOR
Address Line 4: BOSTON, MASSACHUSETTS 02116

NAME OF SUBMITTER:	KEEGAN M. CALDWELL
SIGNATURE:	/KEEGAN M. CALDWELL/
DATE SIGNED:	10/28/2021

Total Attachments: 4
source=Assignment from FAURC to OP Solutions 1097-031USP1 - 1097-054USP1 (Fully Executed)#page1.tif
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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: 10/25/2021



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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: 2021/10/26

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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
1097-031USP1	62/856,339	6/3/2019	MERGE CANDIDATES REORDER BASED ON GLOBAL MOTION VECTOR
1097-034PCT1	PCT/US19/38499	6/21/2019	BLOCK LEVEL GEOMETRIC PARTITIONING
1097-010USP1	62/883,503	8/6/2019	FRAME BUFFERING IN ADAPTIVE RESOLUTION MANAGEMENT
1097-009USP1	62/883,484	8/6/2019	IMPLICIT SIGNALING OF ADAPTIVE RESOLUTION MANAGEMENT BASED ON FRAME TYPE
1097-008USP1	62/883,480	8/6/2019	ADAPTIVE RESOLUTION MANAGEMENT USING SUB-FRAMES
1097-007USP1	62/883,459	8/6/2019	ADAPTIVE RESOLUTION MANAGEMENT SIGNALING
1097-006USP1	62/883,454	8/6/2019	ADAPTIVE RESOLUTION MANAGEMENT PREDICTION RESCALING
1097-005USP1	62/883,407	8/6/2019	BLOCK-BASED ADAPTIVE RESOLUTION MANAGEMENT
1097-037USP1	62/932,597	11/8/2019	METHODS AND SYSTEMS FOR ADAPTIVE CROPPING
1097-014PCT1	PCT/US19/63707	11/27/2019	ADAPTIVE TEMPORAL FILTER FOR AN UNAVAILABLE REFERENCE PICTURE CROSS-REFERENCE TO RELATED APPLICATIONS
1097-013PCT1	PCT/US19/63704	11/27/2019	BLOCK-BASED SPATIAL ACTIVITY MEASURES FOR PICTURES CROSS-REFERENCE TO RELATED APPLICATIONS
1097-012PCT1	PCT/US19/63698	11/27/2019	BLOCK-BASED PICTURE FUSION FOR CONTEXTUAL SEGMENTATION AND PROCESSING
1097-011PCT1	PCT/US19/63694	11/27/2019	ADAPTIVE BLOCK UPDATE OF UNAVAILABLE REFERENCE FRAMES USING EXPLICIT AND IMPLICIT SIGNALING
1097-040USP1	63/009,978	4/14/2020	METHODS AND SYSTEMS OF VIDEO CODING USING REFERENCE REGIONS
1097-005USC1	17/394,511	8/5/2021	BLOCK-BASED ADAPTIVE RESOLUTION MANAGEMENT
1097-052USP1	63/235,552	8/20/2021	SYSTEMS AND METHODS FOR JOINT OPTIMIZATION TRAINING
1097-051USP1	63/235,438	8/20/2021	SYSTEMS AND METHODS FOR DUAL-PURPOSE ENCODER-SIDE PREPROCESSING
1097-044PCT1	PCT/US21/47927	8/27/2021	METHODS AND SYSTEMS FOR COMBINED LOSSLESS AND LOSSY CODING
1097-043PCT1	PCT/US21/47902	8/27/2021	METHODS AND SYSTEMS FOR COMBINED LOSSLESS AND LOSSY CODING
1097-042PCT1	PCT/US21/47886	8/27/2021	METHODS AND SYSTEMS OF ADAPTIVE GEOMETRIC PARTITIONING
1097-041PCT1	PCT/US21/47857	8/27/2021	METHODS AND SYSTEMS OF ADAPTIVE GEOMETRIC PARTITIONING

1097-053USP1	63/249,984	9/29/2021	SYSTEMS AND METHODS FOR SCALABLE VIDEO CODING FOR MACHINES
1097-054USP1	63/252,266	10/5/2021	SYSTEMS AND METHODS FOR PREDICTIVE CODING