

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6187974

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	05/13/2020

CONVEYING PARTY DATA

Name	Execution Date
NEXTVR INC.	05/13/2020

RECEIVING PARTY DATA

Name:	NEVERMIND CAPITAL LLC
Street Address:	CORPORATION TRUST CENTER
Internal Address:	1209 ORANGE STREET
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19801

PROPERTY NUMBERS Total: 135

Property Type	Number
Patent Number:	8451320
Application Number:	61146668
Application Number:	12727122
Application Number:	61161397
Application Number:	61157872
Patent Number:	8610757
Patent Number:	9912965
Application Number:	15806285
Application Number:	15912206
Patent Number:	9313474
Application Number:	61236208
Application Number:	13187506
Application Number:	61366089
Application Number:	61510050
Application Number:	13443597
Application Number:	61473799
Patent Number:	9407902
Application Number:	15225449

PATENT

Property Type	Number
Application Number:	61473809
Application Number:	61652111
Patent Number:	9485494
Patent Number:	9204127
Application Number:	14942101
Patent Number:	9930318
Application Number:	15792639
Patent Number:	10523920
Application Number:	61587642
Patent Number:	9538160
Application Number:	15396765
Patent Number:	9699437
Application Number:	15597103
Application Number:	61947312
Patent Number:	10027948
Patent Number:	10447994
Application Number:	62001049
Application Number:	62001137
Application Number:	62128844
Patent Number:	9918136
Application Number:	14726440
Application Number:	15920164
Application Number:	62004547
Patent Number:	10397543
Application Number:	14845208
Application Number:	62045004
Application Number:	15003392
Application Number:	62106076
Patent Number:	10531071
Application Number:	15072227
Application Number:	62106122
Application Number:	62257651
Application Number:	62260238
Application Number:	15002224
Application Number:	62106087
Patent Number:	9955147
Application Number:	62108962
Application Number:	15043356

Property Type	Number
Application Number:	62115605
Patent Number:	9832449
Patent Number:	10432910
Application Number:	62110355
Patent Number:	9832450
Application Number:	15046314
Patent Number:	9729850
Patent Number:	10075701
Application Number:	15806251
Patent Number:	10027944
Patent Number:	10506215
Application Number:	16708420
Application Number:	16037273
Application Number:	62117427
Application Number:	62262374
Application Number:	62296065
Patent Number:	10362290
Application Number:	16520066
Application Number:	15057210
Patent Number:	10033995
Patent Number:	10397538
Patent Number:	10574962
Patent Number:	10038889
Application Number:	16040325
Application Number:	16040184
Application Number:	62126701
Application Number:	62126709
Patent Number:	9865055
Application Number:	15865210
Patent Number:	10412382
Application Number:	62120311
Application Number:	62382251
Patent Number:	9894350
Application Number:	62167891
Patent Number:	9836845
Patent Number:	10438369
Application Number:	15892405
Application Number:	62456657

Property Type	Number
Application Number:	15892412
Application Number:	15331731
Patent Number:	10298819
Application Number:	62364838
Application Number:	62365361
Application Number:	62383336
Application Number:	15650905
Application Number:	62363198
Application Number:	62456572
Patent Number:	9821920
Patent Number:	10279925
Patent Number:	10200672
Application Number:	16267369
Application Number:	15921373
Application Number:	62467813
Application Number:	62640011
Patent Number:	10567733
Patent Number:	10477186
Application Number:	15882997
Application Number:	62478031
Application Number:	15861670
Application Number:	62481457
Application Number:	16013879
Application Number:	62652870
Application Number:	62687563
Application Number:	16401707
Application Number:	62668778
Application Number:	16510869
Application Number:	62697290
Application Number:	16512369
Application Number:	62697404
Application Number:	16512241
Application Number:	62697408
Application Number:	16510758
Application Number:	62697128
Application Number:	62739331
Application Number:	62838300
Application Number:	16858531

Property Type	Number
Application Number:	62906719
Application Number:	62127215
Application Number:	61810883

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.

Email: mbrininger@blankrome.com

Correspondent Name: BLANK ROME LLP - HOUSTON GENERAL

Address Line 1: 717 TEXAS AVENUE, SUITE 1400

Address Line 4: HOUSTON, TEXAS 77002

ATTORNEY DOCKET NUMBER: P50479+-NEXTVR

NAME OF SUBMITTER: KATHERINE A. FRANCO

SIGNATURE: /Katherine A. Franco/

DATE SIGNED: 07/07/2020

Total Attachments: 29

source=P50479US1_Assignment-NextVR_to_Nevermind#page1.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page2.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page3.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page4.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page5.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page6.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page7.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page8.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page9.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page10.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page11.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page12.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page13.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page14.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page15.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page16.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page17.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page18.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page19.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page20.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page21.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page22.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page23.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page24.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page25.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page26.tif
source=P50479US1_Assignment-NextVR_to_Nevermind#page27.tif

source=P50479US1_Assignment-NextVR_to_Nevermind#page28.tif

source=P50479US1_Assignment-NextVR_to_Nevermind#page29.tif

PATENT ASSIGNMENT

This Assignment is made with effect as of May 13, 2020 by **NextVR Inc.**, a company duly organized under the laws of the State of Delaware and having an address at 880 Newport Center Drive, Newport Beach, CA 92660 (hereinafter the "Assignor"):

WHEREAS, Assignor is the owner of all of the worldwide rights, title and interest in and to the patents and patent applications set forth on Schedule A hereto (hereinafter the "Listed Patents and Applications");

WHEREAS, **Nevermind Capital LLC**, a limited liability company duly organized under and pursuant to the laws of the State of Delaware, and having a principal place of business at Corporation Trust Center, 1209 Orange Street, Wilmington, DE 19801 (hereinafter the "Assignee"), is desirous of acquiring the entire worldwide right, title and interest in and to said Listed Patents and Applications and the Assigned Patents and Applications (as defined below);

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, said Assignor has sold, assigned, transferred and conveyed, and by this Assignment does hereby sell, assign, transfer and convey, unto said Assignee, its successors, legal representatives and assigns, Assignor's entire worldwide right, title and interest in and to the above-mentioned Listed Patents and Applications, and in and to any and all (a) applications (including, but not limited to, provisional applications) and patents from or to which any Listed Patents and Applications claim priority (in whole or in part) or that share common priority (in whole or in part) with any Listed Patents and Applications, (b) divisionals, continuations, continuations-in-part and foreign counterparts of any of the foregoing, (c) patents granted for, on, or extending any of any of the foregoing, (d) other types of patents, including, but not limited to, design patents, utility models, or other types of patents that derive from, extend, or claim priority based on any of any of the foregoing, (e) reissues, reexaminations and extensions of any of the foregoing, and (f) inventions described in any of the foregoing (collectively, the "Assigned Patents and Applications"), together with all rights under international treaties relating to intellectual property, including, but not limited to, the Paris Convention for the Protection of Industrial Property and the Patent Cooperation Treaty, and to claim all rights of priority resulting from the filing of any of the foregoing, all of the foregoing to be held and enjoyed by said Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, to the full end of the term or terms of any and all Assigned Patents and Applications for which patents may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignor, had this sale and assignment not been made. Assignor does hereby sell, assign, transfer, and convey to Assignee, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the Assigned Patents and Applications that may have accrued prior to the date of assignment to Assignee, or may accrue hereafter including, but not limited to, the right to sue for, collect, and retain damages for past, present and future infringement of any of the said Assigned Patents and Applications before or after issuance. To the extent that Schedule A hereto contains any typographical or administrative error but it is clear which patent or patent application was intended to be included in the sale, assignment, transfer and conveyance under this Assignment, Assignor and Assignee each acknowledge and

agree that the intended patent or patent application is hereby sold, assigned, transferred and conveyed, along with all other rights, privileges and claims enumerated above with respect to such intended patent or patent application.

IN TESTIMONY WHEREOF,

NextVR Inc.

Nevermind Capital LLC

By: _____

By: SJV _____

Name: _____

Name: Sam Whittington _____

Title: _____

Title: Manager _____

Date: _____

Date: June 24, 2020 _____

[SIGNATURE PAGE TO PATENT ASSIGNMENT]

IN TESTIMONY WHEREOF,

NextVR, Inc.

David M. Cole

BY _____

Name: David M. Cole

Title: Chief Executive Officer

Date: May 13, 2020

Nevermind Capital LLC

By: _____

Name: Sam Whittington

Title: Manager

Date: _____

SCHEDULE "A" to Assignment

Country Code	Patent Application No.	Filing Date	Grant Number	Grant Date	Publication Number	Publication Date	Title
CA	2,948,642	5/29/15					Methods And Apparatus For Delivering Content And/Or Playing Back Content
CA	2,961,175	9/3/15					Methods And Apparatus For Capturing, Streaming And/Or Playing Back Content
CA	2,977,051	2/17/16					Methods And Apparatus For Generating And Using Reduced Resolution Images And/Or Communicating Such Images To A Playback Or Content Distribution Device
CA	2,977,113	3/1/16					Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements In 3D Image Rendering

CN	201580011475.3	3/2/15					Methods And Apparatus For Streaming Content
CN	201580026273.6	5/20/15					Methods And Apparatus Including Or For Use With One Or More Cameras
CN	201580028645.9	5/29/15	ZL201580028645.9	4/9/19		2/15/17	Methods And Apparatus For Delivering Content And/Or Playing Back Content
CN	201580047315.4	9/3/15				4/26/17	Methods And Apparatus For Capturing, Streaming And/Or Playing Back Content
CN	CN108139592A	1/28/16				6/8/18	Zoom Related Methods And Apparatus
CN	201680021132.X	2/12/16				12/1/17	Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements
CN	CN107615338A	2/17/16				1/19/18	Methods And Apparatus For Generating And Using Reduced Resolution Images And/Or Communicating Such Images To A Playback Or Content Distribution Device
CN	201680021794.7	3/1/16					Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements In 3D Image Rendering
CN	201680021622.X	3/1/16				12/1/17	Methods And Apparatus For Supporting Content Generation, Transmission And/Or Playback

DE	201660020923	3/1/16	201660020923	10/10/19			METHOD AND DEVICE FOR SUPPORTING CONTENT GENERATION, TRANSMISSION AND / OR REPRODUCTION
DE	201660008209	2/23/16	201660008209	3/2/19			CALIBRATION FOR IMMERSIVE CONTENT SYSTEMS

EP	15 758 178.6	3/2/15						Methods And Apparatus For Streaming Content
EP	15 798 986.4	5/29/15				4/5/17		Methods And Apparatus For Delivering Content And/Or Playing Back Content
EP	15 857 993.3	9/3/15						Methods And Apparatus For Capturing, Streaming And/Or Playing Back Content
EP	16744120.3	1/28/16						Zoom Related Methods And Apparatus
EP	16750020.6-1210	2/12/16						Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements
EP	16744160.9-1209	1/29/16				12/6/17		Methods And Apparatus For Controlling A Viewing Position
EP	16753000.5	2/17/16				12/27/17		Methods And Apparatus For Generating And Using Reduced Resolution Images And/Or Communicating Such Images To A Playback Or Content Distribution Device
EP	16759333.4	3/1/16						Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements In 3D Image Rendering
EP	16759373.0	3/1/16	3266199	9/18/19				Methods And Apparatus For Supporting Content Generation, Transmission And/Or Playback
EP	16713150.7-1502	2/23/16	EP3262614	12/12/18		1/3/18		Calibration For Immersive Content System

EP	1683905.3	8/19/16					Methods And Apparatus For Detecting Objects In Proximity To A Viewer And Presenting Visual Representations Of Objects In A Simulated Environment
----	-----------	---------	--	--	--	--	--

5

GB	16759373.0	3/1/16	3266199	9/18/19			Methods And Apparatus For Supporting Content Generation, Transmission And/Or Playback
GB	16713150.7-1502	2/23/16	EP3262614	12/12/18			Calibration For Immersive Content System

IN	Pending	201647044430	5/29/15				IN201647044430	01/27/17	METHODS AND APPARATUS FOR DELIVERING CONTENT AND/OR PLAYING BACK CONTENT
IN	Abandoned	201747033610	9/22/17				IN201747033610	09/29/17	METHODS AND APPARATUS FOR 3D IMAGE RENDERING
IN	Abandoned	201747032224	9/12/17				IN201747032224	09/15/2017	METHODS AND APPARATUS FOR GENERATING AND USING REDUCED RESOLUTION IMAGES AND/OR COMMUNICATING SUCH IMAGES TO A PLAYBACK OR CONTENT DISTRIBUTION DEVICE

JP	2016-573665	3/2/15						Methods And Apparatus For Streaming Content
JP	2016-568677	5/20/15						Methods And Apparatus Including Or For Use With One Or More Cameras
JP	2017-515038	5/29/15				9/14/17		Methods And Apparatus For Delivering Content And/Or Playing Back Content
JP	2017-512770	9/3/15						Methods And Apparatus For Capturing, Streaming And/Or Playing Back Content
JP	2018-514093	1/28/16				5/31/18		Zoom Related Methods And Apparatus
JP	2018-506797	2/12/16				3/8/18		Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements
JP	2018-511971	2/17/16				4/26/18		Methods And Apparatus For Generating And Using Reduced Resolution Images And/Or Communicating Such Images To A Playback Or Content Distribution Device
JP	2017-546168	3/1/16				6/7/18		Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements In 3D Image Rendering
JP	2018-507650	3/1/16				3/15/18		Methods And Apparatus For Supporting Content Generation, Transmission And/Or Playback

KR	Granted	10-2016-7036714	5/29/2015				KR20170015938	2/10/2017	METHODS AND APPARATUS FOR DELIVERING CONTENT AND/OR PLAYING BACK CONTENT
KR	Granted	10-2017-7008939	9/3/2015				KR20170047385	5/4/2017	METHODS AND APPARATUS FOR CAPTURING, STREAMING AND/OR PLAYING BACK CONTENT
KR	Granted	10-2017-7026175	2/17/2016				KR20170120631	10/31/2017	METHODS AND APPARATUS FOR GENERATING AND USING REDUCED RESOLUTION IMAGES AND/OR COMMUNICATING SUCH IMAGES TO A PLAYBACK OR CONTENT DISTRIBUTION DEVICE
KR	Granted	10-2017-7027972	3/1/2016				KR20170127505	11/21/2017	METHODS AND APPARATUS FOR 3D IMAGE RENDERING
KR	Granted	10-2016-7027231	3/2/2015				KR20170008725	1/24/2017	METHODS AND APPARATUS FOR STREAMING CONTENT

US	61/146,668	1/23/09						Stereoscopic Video Compression, Encoding, Transmission, Decoding And Decompression
US	12/693,421	1/25/10	8,451,320	5/28/13				Methods And Apparatus For Stereoscopic Video Compression, Encoding, Transmission, Decoding And/Or Decompression
US	61/161,397	3/18/09						Stereoscopic Video, Preparation And Endocing Method For Playback Using Standard Consumer Digital Video Players And 3D-Ready TVs
US	12/727,122	3/18/10						Stereoscopic Video Preparation, Endocing And Playback Methods And Apparatus
US	61/157,872	3/5/09						Stereoscopic Video Compression, Encoding, Transmission, Decoding And Decompression Using Geometric Transformation Of Stereo Pairs
US	61/236,208	8/24/09						Stereoscopic Video Encoding And Decoding Methods And Apparatus
US	12/862,457	8/24/10	8,610,757	12/17/13	US 2011-0069150 A1	3/24/11		Stereoscopic Video Encoding And Decoding Methods And Apparatus
US	14/107,852	12/16/13	9,313,474	4/12/16				Stereoscopic Video Encoding And Decoding Methods And Apparatus
US	15/090,465	4/4/16	9,912,965	3/6/18	US 2016-0219305 A1	7/28/16		Stereoscopic Video Encoding And Decoding Methods And Apparatus
US	15/806,285	11/7/17						Stereoscopic Video Encoding And Decoding Methods And Apparatus

US	15/912,206	3/5/18			US 2018-0359488 A1	12/13/18	Stereoscopic Video Encoding And Decoding Methods And Apparatus
US	61/366,089	7/20/10					Methods And Apparatus For Securing Stereoscopic Image Data
US	61/510,050	7/20/11					Methods And Apparatus For Securing Stereoscopic Image Data
US	13/187,506	7/20/11					Methods And Apparatus For Securing Stereoscopic Image Data
US	61/473,799	4/10/11					Stereoscopic Video Streaming
US	13/443,597	4/10/12					Stereoscopic Video Streaming
US	61/473,809	4/10/11					3D Video Encoding And Decoding Methods And Apparatus
US	61/652,111	5/25/12					3D Video Encoding And Decoding Methods And Apparatus
US	13/443,864	4/10/12	9,407,902	8/2/16			3D Video Encoding And Decoding Methods And Apparatus
US	13/533,465	6/26/12	9,485,494	11/1/16			3D Video Encoding And Decoding Methods And Apparatus
US	15/225,449	8/1/16			US 2017-0094247 A1	3/30/17	3D Video Encoding And Decoding Methods And Apparatus

US	61/587,642	1/17/12							Stereoscopic Live Streaming Methods And Apparatus
US	13/744,400	1/17/13	9,204,127	12/1/15					Stereoscopic Image Processing Methods And Apparatus
US	14/942,101	11/30/15							Stereoscopic Image Processing Methods And Apparatus
US	14/954,590	11/30/15	9,930,318	3/27/18			3/17/16		Stereoscopic Image Processing Methods And Apparatus
US	15/792,639	10/24/17							Stereoscopic Image Processing Methods And Apparatus
US	15/937,583	3/27/18	10,523,920	12/31/19		US 2018-0324408 A1	11/8/18		Stereoscopic Image Processing Methods And Apparatus
US	14/093,466	11/30/13	9,538,160	1/3/17					Immersive Stereoscopic Video Acquisition, Encoding And Virtual Reality Playback Methods And Apparatus
US	15/396,765	1/2/17				US 2017-0150122 A1	5/25/17		Immersive Stereoscopic Video Acquisition, Encoding And Virtual Reality Playback Methods And Apparatus
US	61/947,312	3/3/14							Methods And Apparatus For Streaming Content
US	14/252,289	4/14/14	9,699,437	7/4/17		US 2015-0249813 A1	9/3/15		Methods And Apparatus For Streaming Content
US	15/597,103	5/16/17				US 2017-0324945 A1	11/9/17		Methods And Apparatus For Streaming Content

US	62/001,049	5/20/14							Stereoscopic Camera Methods And Apparatus
US	62/001,137	5/21/14							Stereoscopic Camera Methods And Apparatus
US	62/128,844	3/5/15							Stereoscopic Camera Methods And Apparatus
US	14/718,028	5/20/15	10,027,948	7/17/18	US 2015-0341617 A1	11/26/15			Methods And Apparatus Including Or For Use With One Or More Cameras
US	16/035,438	7/13/18	10,447,994	10/15/19	US 2019-0082165 A1	3/14/19			Methods And Apparatus Including Or For Use With One Or More Cameras
US	62/004,547	5/29/14							Methods And Apparatus For Efficient Streaming Content
US	14/726,431	5/29/15	9,918,136	3/13/18	US 2015-0346832 A1	12/3/15			Methods And Apparatus For Delivering Content And/Or Playing Back Content
US	15/920,164	3/13/18			US 2018-0279006 A1	9/27/18			Methods And Apparatus For Delivering Content And/Or Playing Back Content
US	14/726,440	5/29/15			US 2015-0346812 A1	12/3/15			Methods And Apparatus For Receiving Content And/Or Playing Back Content
US	62/045,004	9/3/14							Methods And Apparatus For Capturing, Streaming And/Or Playing Back Content
US	14/845,202	9/3/15	10,397,543	8/27/19	US 2016-0065946 A1	3/3/16			Methods And Apparatus For Capturing, Streaming And/Or Playing Back Content

US	14/845,208	9/3/15				US 2016-0065947 A1	3/3/16	Methods And Apparatus For Receiving And/Or Playing Back Content
US	62/106,076	1/21/15						Methods And Apparatus Relating To 3D Environmental Mapping And/Or 3D Image Rendering
US	15/003,392	1/21/16						Methods And Apparatus Relating To 3D Environmental Mapping And/Or 3D Image Rendering
US	62/106,122	1/21/15						Methods And Apparatus For Environmental Measurements And Stereoscopic Image Capture
US	62/257,651	11/19/15						Methods And Apparatus For Environmental Measurements And/Or Stereoscopic Image Capture
US	62/260,238	11/25/15						Methods And Apparatus For Environmental Measurements And/Or Stereoscopic Image Capture
US	14/952,910	11/25/15	10,531,071	1/7/20		US 2016-0212409 A1	7/21/16	Methods And Apparatus For Environmental Measurements And/Or Stereoscopic Image Capture
US	15/072,227	3/16/16				US 2016-0269716 A1	9/15/16	Methods And Apparatus For Environmental Measurements And/Or Stereoscopic Image Capture
US	62/106,087	1/21/15						Image Processing And Encoding
US	15/002,224	1/20/16				US 2016-0212403 A1	7/21/16	Methods And Apparatus For Processing And Or Encoding Images With Negative Parallax
US	62/108,962	1/28/15						Zoom Related Methods And Apparatus

US	15/009,320	1/28/16	9,955,147	4/24/18	US 2016-0219262 A1	7/28/16	Zoom Related Methods And Apparatus
US	62/115,605	2/12/15					Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements In Environmental Depth Maps And/Or Generating Stereoscopic Views
US	15/043,356	2/12/16			US 2016-0239978 A1	8/18/16	Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements
US	62/110,355	1/30/15					Methods And Apparatus For Controlling A Viewing Position
US	15/009,531	1/28/16	9,832,449	11/28/17	US 2016-0227190 A1	8/4/16	Methods And Apparatus For Controlling A Viewing Position
US	15/806,264	11/7/17	10,432,910	10/1/19	US 2018-0192025 A1	7/5/18	Methods And Apparatus For Controlling A Viewing Position
US	62/117,427	2/17/15					Methods And Apparatus For Using Selective Resolution Allocation In Communicating And Rendering Images
US	62/262,374	12/2/15					Methods And Apparatus For Using Selective Resolution Allocation In Communicating And Rendering Images
US	62/296,065	2/16/16					Methods And Apparatus For Using Selective Resolution Allocation In Communicating And Rendering Images
US	15/046,311	2/17/16	9,832,450	11/28/17	US 2016-0241892 A1	8/18/16	Methods And Apparatus For Generating And Using Reduced Resolution Images And/Or Communicating Such Images To A Playback Or Content Distribution Device

US	15/806,251	11/7/17				US 2018-0220121 A1	8/2/18	Methods And Apparatus For Generating And Using Reduced Resolution Images And/Or Communicating Such Images To A Playback Or Content Distribution Device
US	15/046,314	2/17/16				US 2016-0241838 A1	8/18/16	Methods And Apparatus For Generating And Using Reduced Resolution Images And/Or Communicating Such Images To A Playback Or Content Distribution Device
US	15/046,327	2/17/16	9,729,850	8/8/17		US 2016-0241836 A1	8/18/16	Methods And Apparatus For Receiving And/Or Using Reduced Resolution Images
US	15/672,236	8/8/17	10,027,944	7/17/18		US 2017-0359564 A1	12/14/17	Methods And Apparatus For Receiving And/Or Using Reduced Resolution Images
US	16/035,459	7/13/18	10,506,215	12/10/19		US 2019-0110041 A1	4/11/19	Methods And Apparatus For Receiving And/Or Using Reduced Resolution Images
US	16/708,420	12/9/19						Methods And Apparatus For Receiving And/Or Using Reduced Resolution Images
US	15/046,331	2/17/16	10,075,701	9/11/18		US 2016-0241837 A1	8/18/16	Methods And Apparatus For Mapping At Least One Received Image To A Surface Of A Model In A Manner That Efficiently Uses The Image Content As A Texture
US	16/037,273	7/17/18				US 2019-0082161 A1	3/14/19	Methods And Apparatus For Receiving And/Or Using Reduced Resolution Images
US	62/126,701	3/1/15						Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements In 3D Image Rendering And/Or Other Applications Such As 3D Model Generation

US	15/057,210	3/1/16			US 2016-0253839 A1	9/1/16	Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements In 3D Image Rendering
US	62/126,709	3/1/15					Methods And Apparatus For Supporting A Range Of Viewing Positions In A 3D Environment
US	15/058,125	3/1/16	10,033,995	7/24/18	US 2016-0255326 A1	9/1/16	Methods And Apparatus For Supporting Content Generation, Transmission And/Or Playback
US	16/040,325	7/19/18			US 2019-0082159 A1	3/14/19	Methods And Apparatus For Supporting Content Generation, Transmission And/Or Playback
US	15/058,128	3/1/16	10,397,538	8/27/19	US 2016-0255327 A1	9/1/16	Methods And Apparatus For Supporting Content Generation, Transmission And/Or Playback
US	15/058,132	3/1/16	10,574,962	2/25/20	US 2016-0253810 A1	9/1/16	Methods And Apparatus For Requesting, Receiving And/Or Playing Back Content Corresponding To An Environment
US	15/058,131	3/1/16	10,038,889	7/31/18	US 2016-0253809 A1	9/1/16	Methods And Apparatus For Requesting, Receiving And/Or Playing Back Content Corresponding To An Environment
US	16/040,184	7/19/18			US 2019-0082158 A1	3/14/19	Methods And Apparatus For Requesting, Receiving And/Or Playing Back Content Corresponding To An Environment
US	62/120,311	2/24/15					Calibration Techniques For Immersive Content Systems
US	15/051,550	2/23/16	9,865,055	1/9/18	US 2016-0253795 A1	9/1/16	Calibration For Immersive Content Systems
US	15/865,210	1/8/18			US 2018-0197309 A1	7/12/18	Calibration For Immersive Content Systems

US	62/167,891	5/28/15							Methods And Apparatus For Streaming Video Methods And Apparatus For Streaming Video Corresponding To An Environment
US	14/835,249	8/25/15	9,836,845	12/5/17	US 2017-0061600 A1	3/2/17			Methods And Apparatus For Detecting Objects In Proximity To A Viewer And Presenting Visual Representations Of Objects In A Simulated Environment
US	15/806,244	11/7/17	10,438,369	10/8/19	US 2018-0189973 A1	7/5/18			Methods And Apparatus For Detecting Objects In Proximity To A Viewer And Presenting Visual Representations Of Objects In A Simulated Environment
US	62/456,657	2/8/17							Methods And Apparatus For Switching Between Cameras While Preserving A User Point Of View
US	15/892,405	2/8/18			US 2018-0249189 A1	8/30/18			Methods And Apparatus For Use In A System Or Device Where Switching Between Cameras May Occur
US	15/892,412	2/9/18			US 2018-0225537 A1	8/9/18			Methods And Apparatus Relating To Camera Switching And/Or Making A Decision To Switch Between Cameras
US	62/364,838	7/20/16							Stereoscopic Apparatus And Methods
US	62/365,361	7/21/16							Stereoscopic Apparatus And Methods
US	62/383,336	9/2/16							Stereoscopic Apparatus And Methods
US	15/331,731	10/21/16			US 2018-0027152 A1	1/25/18			Camera Apparatus And Methods

US	15/331,738	10/21/16	10,298,819	5/21/19	US 2018-0024419 A1	1/25/18	Camera Apparatus And Methods Which Allow For Filters To Be Used
US	62/363,198	7/15/16					Camera Alignment And/Or Calibration Methods And Apparatus
US	62/456,572	2/8/17					Camera Alignment And/Or Calibration Methods And Apparatus
US	15/650,905	7/15/17			US 2018-0020206 A1	1/18/18	Camera Alignment And/Or Calibration Methods And Apparatus
US	14/829,562	8/18/15	9,821,920	11/21/17	US 2017-0050743 A1	2/23/17	Methods And Apparatus For Compensating For Vehicular Motion
US	15/804,789	11/6/17	10,279,925	5/7/19	US 2018-0186466 A1	7/5/18	Methods And Apparatus For Compensating For Vehicular Motion
US	15/239,748	8/17/16	10,362,290	7/23/19	US 2016-0360180 A1	12/8/16	Methods And Apparatus For Processing Content Based On Viewing Information And/Or Communicating Content
US	16/520,066	7/23/19					Methods And Apparatus For Processing Content Based On Viewing Information And/Or Communicating Content
US	15/239,823	8/17/16	10,200,672	2/5/19	US 2018-0054607 A1	2/22/18	Methods And Apparatus For Capturing Images Of An Environment
US	16/267,369	2/4/19			US 2019-0306487 A1	10/3/19	Methods And Apparatus For Capturing Images Of An Environment
US	PCT/US17/4745 4	8/17/17			WO 2018/035385	2/22/18	Methods And Apparatus For Capturing Images Of An Environment

US	62/382,251	8/31/16							Methods And Apparatus Related To Capturing And/Or Rendering Images
US	15/255,155	9/1/16	9,894,350	2/13/18	US 2016-0373734 A1	12/22/16			Methods And Apparatus Related To Capturing And/Or Rendering Images
US	15/871,777	1/15/18	10,412,382	9/10/19	US 2018-0234676 A1	8/16/18			Methods And Apparatus Related To Capturing And/Or Rendering Images
US	62/467,813	3/6/17							Methods And Apparatus For Packing Images Into A Frame And/Or Including Additional Content Or Graphics
US	62/640,011	3/7/18							Methods And Apparatus For Packing Images Into A Frame And/Or Including Additional Content Or Graphics
US	15/921,373	3/14/18			US 2018-0255288 A1	9/6/18			Methods And Apparatus For Packing Images Into A Frame And/Or Including Additional Content Or Graphics
US	15/917,569	3/9/18	10,567,733	2/18/20	US 2018-0262745 A1	9/13/18			Methods And Apparatus For Communicating And/Or Using Frames Including A Captured Image And/Or Including Additional Image Content
US	PCT/US18/2123 8	3/6/18							Methods And Apparatus For Packing Images Into A Frame And/Or Including Additional Content Or Graphics
US	15/873,893	1/17/18	10,477,186	11/12/19	US 2019-0222824 A1	7/18/19			Methods And Apparatus For Calibrating And/Or Adjusting The Arrangement Of Cameras In A Camera Pair
US	62/478,031	3/28/17							Virtual Reality Methods And Apparatus Which Use Or Include Brain Activity Sensors
US	15/882,997	1/29/18			US 2018-0280656 A1	10/4/18			Virtual Reality Methods And Apparatus Which Use Or Include Brain Activity Sensors

US	62/481,457	4/4/17						Methods And Apparatus For Displaying Images
US	15/861,670	1/4/18			US 2018-0288403 A1	10/4/18		Methods And Apparatus For Displaying Images
US	62/652,870	4/4/18						Methods And Apparatus For Capturing, Processing And/Or Communicating Images
US	62/687,563	6/20/18						Methods And Apparatus For Capturing, Processing And/Or Communicating Images
US	16/013,879	6/20/18			US 2019-0313075 A1	10/10/19		Methods And Apparatus For Capturing, Processing And/Or Communicating Images
US	62/668,778	5/8/18						Methods And Apparatus For Controlling, Implementing And Supporting Trick Play In An Augmented Reality Device
US	16/401,707	5/2/19			US 2019-0346933 A1	11/14/19		Methods And Apparatus For Controlling, Implementing And Supporting Trick Play In An Augmented Reality Device
US	62/697,290	7/12/18						Methods And Apparatus For Modifying An Augmented And/Or Virtual Reality Experience
US	16/510,869	7/12/19						Methods And Apparatus For Modifying An Augmented And/Or Virtual Reality Experience
US	62/697,404	7/13/18						Methods And Apparatus Rendering Images Using Point Clouds Representing One Or More Objects
US	16/512,369	7/15/19						Methods And Apparatus Rendering Images Using Point Clouds Representing One Or More Objects

US	62/697,408	7/13/18							Method And Apparatus For Supporting Augmented And/Or Virtual Reality Playback Using Tracked Objects
US	16/512,241	7/15/19							Method And Apparatus For Supporting Augmented And/Or Virtual Reality Playback Using Tracked Objects
US	62/697,128	7/12/18							Stereoscopic Camera System
US	16/510,758	7/12/19				US 2020-0019045 A1	1/16/20		Stereoscopic Camera System
US	62/739,331	9/30/18							Methods And Apparatus For Detecting And Compensating For Geometry Tearing
US	62/838,300	4/24/19							Methods And Apparatus For Encoding And Communicating Images With Motion For Virtual Reality Systems
US	62/906,719	9/27/19							Methods And Apparatus For Encoding And Communicating Frames Captured Using Fish Eye Lenses

WO	PCT/US10/46536	8/24/10							Stereoscopic Video Encoding And Decoding Methods And Apparatus
WO	PCT/US15/18336	3/2/15					WO 2015/134400	9/11/15	Methods And Apparatus For Streaming Content
WO	PCT/US15/31850	5/20/15					WO 2015/179574	11/26/15	Methods And Apparatus Including Or For Use With One Or More Cameras
WO	PCT/US15/33420	5/29/15					WO 2015/184416	12/3/15	Methods And Apparatus For Delivering Content And/Or Playing Back Content
WO	PCT/US15/48439	9/3/15					WO 2016/037014	3/10/16	Methods And Apparatus For Capturing, Streaming And/Or Playing Back Content
WO	PCT/US16/14319	1/21/16					WO 2016/118745	7/28/16	Methods And Apparatus For Environmental Measurements And/Or Stereoscopic Image Capture
WO	PCT/US16/14326	1/21/16					WO 2016/118750	7/28/16	Image Processing And Encoding
WO	PCT/US16/15403	1/28/16					WO 2016/123364	8/4/16	Zoom Related Methods And Apparatus
WO	PCT/US16/17874	2/12/16					WO 2016/130997	8/18/16	Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements
WO	PCT/US16/15561	1/29/16					WO 2016/123439	8/4/16	Methods And Apparatus For Controlling A Viewing Position

WO	PCT/US16/18315	2/17/16			WO 2016/134048	8/25/16	Methods And Apparatus For Generating And Using Reduced Resolution Images And/Or Communicating Such Images To A Playback Or Content Distribution Device
WO	PCT/US16/20159	3/1/16			WO 2016/140934	9/9/16	Methods And Apparatus For Making Environmental Measurements And/Or Using Such Measurements In 3D Image Rendering
WO	PCT/US16/20299	3/1/16			WO 2016/140986	9/9/16	Methods And Apparatus For Supporting Content Generation, Transmission And/Or Playback
WO	PCT/US16/19200	2/23/16			WO 2016/138043	9/1/16	Calibration For Immersive Content System
WO	PCT/US16/47864	8/19/16			WO 2017/035015	3/2/17	Methods And Apparatus For Detecting Objects In Proximity To A Viewer And Presenting Visual Representations Of Objects In A Simulated Environment
WO	PCT/US18/17498	2/8/18			WO 2018/148467	8/16/18	Methods And Apparatus For Use In A System Or Device Where Switching Between Cameras May Occur
WO	PCT/US17/42678	7/18/17			WO 2018/017620	1/25/18	Camera Apparatus And Methods
WO	PCT/US17/42681	7/18/17			WO 2018/017622	1/25/18	Camera Apparatus And Methods Which Allow For Filters To Be Used
WO	PCT/US17/42285	7/15/17			WO 2018/014014	1/18/18	Camera Alignment And/Or Calibration Methods And Apparatus
WO	PCT/US16/47480	8/18/16			WO 2017/031273	2/23/17	Methods And Apparatus For Compensating For Vehicular Motion

WO	PCT/US17/47451	8/17/17			WO 2018/035383	2/22/18	Methods And Apparatus For Processing Content Based On Viewing Information And/Or Communicating Content
WO	PCT/US17/47456	8/17/17			WO 2018/044584	3/8/18	Methods And Apparatus Related To Capturing And/Or Rendering Images
WO	PCT/US18/24673	3/27/18			WO 2018/183399	10/4/18	Methods And Apparatus Which Use Or Include Brain Activity Sensors
WO	PCT/US18/25968	4/3/18			WO 2018/187387	10/11/18	Methods And Apparatus For Displaying Images