

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6248959

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	DAQRI, LLC	06/15/2020
RECEIVING PARTY DATA		
Name:	RPX CORPORATION	
Street Address:	FOUR EMBARCADERO CENTER, SUITE 4000	
City:	SAN FRANCISCO	
State/Country:	CALIFORNIA	
Postal Code:	94111	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	14184523
CORRESPONDENCE DATA		
Fax Number:	(612)339-3061	
<i>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.</i>		
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Correspondent Name:	SCHWEGMAN LUNDBERG & WOESSNER, P.A.	
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ATTORNEY DOCKET NUMBER:	5637.017US1	
NAME OF SUBMITTER:	JULIE A. NELSON	
SIGNATURE:	/ Julie A. Nelson /	
DATE SIGNED:	08/13/2020	
Total Attachments: 25		
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RECORDATION FORM COVER SHEET
PATENTS ONLY

Atty Ref/Docket No.: 3621.000001

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

DAQRI, LLC

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger

☐ Security Agreement ☐ Change of Name

☐ Other

Execution Date: June 15, 2020

2. Name and address of receiving party(ies):

Name: RPX Corporation

Street Address: Four Embarcadero Center
Suite 4000

City: San Francisco State: CA Zip: 94111

Country: United States of America

Additional name(s) & address(es) attached? ☐ Yes
☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) **See Schedule 1**

B. Patent No.(s) **See Schedule 1**

Serial No. Unknown

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Thierry Lo

Address:

Schwegman Lundberg & Woessner, P.A.

P.O. Box 2938

Minneapolis, Minnesota 55402

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):\$ 0.00

☐ Enclosed

☐ Authorized to be charged to deposit account
19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Thierry Lo/Reg. No. 49,097

Name of Person Signing

/Thierry Lo/

Signature

8/5/2020

Date

Total number of pages including cover sheet: 25

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

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P.O. Box 1450

Alexandria, VA 22313-1450

PATENT
REEL: 053487 FRAME: 0780

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EXHIBIT A

Patent Assignment

This patent assignment ("Assignment") is entered into as of June 15, 2020 (the "Effective Date"), by and between Daqri, LLC, a limited liability company, with principal place of business at 1201 West 5th Street, Suite T-800, Los Angeles, CA 90017 ("Seller"), and RPX Corporation, a Delaware corporation, with principal place of business at Four Embarcadero Center, Suite 4000, San Francisco, CA 94111 ("Buyer").

For good and valuable consideration, the receipt of which is hereby acknowledged, Seller hereby irrevocably assigns, sells, grants, transfers and conveys and agrees to assign, sell, grant, transfer, and convey to Buyer, and Buyer hereby accepts and receives, all right, title, and interest throughout the world in and to:

(a) the issued patents and pending patent applications identified on Schedule 1 attached hereto and any issued patent or patent application that directly or indirectly claims or is amended to claim priority to any of the above, in whole or in part (the "Listed Patents");

(b) to the extent not included in (a), all issued patents, rights to inventions and pending and future applications for patents under U.S. law or regulation or of any foreign country with respect to the patentable inventions from which such Listed Patents arise, including without limitation utility patents, utility models, design patents, invention certificates, provisionals, continuations, divisionals, continuations-in-part, reexaminations, reissues, extensions and renewals, in all countries of the world, as well as any patents and patent applications to which any of the Listed Patents or any of the foregoing directly or indirectly claim priority, in whole or in part (subcategories (a) and (b) collectively, the "Assigned Patents");

(c) all causes of action (whether known or unknown or whether currently pending, filed or otherwise) and other enforcement rights under or on account of the Listed Patents, including without limitation all causes of action and other enforcement rights for damages, injunctive relief, and any other remedies of any kind for past, current and future infringement; and

(d) all rights to collect royalties or other payments under or on account of the Assigned Patents and the foregoing subcategory (c).

Seller agrees upon request (and at the expense) of Buyer to, and if Seller is unable or unwilling to do so authorizes Buyer to act in Seller's name to: execute all oaths, assignments, powers, and any other papers necessary to perform Seller's obligations hereunder, testify in any proceeding, and otherwise take any action, and fully cooperate with Buyer to perform Seller's obligations hereunder, in each case, related to securing and enforcing Buyer's rights related to this Assignment.

The terms and conditions of this Assignment will inure to the benefit of Buyer, its successors, assigns, and other legal representatives and will be binding upon Seller, its successors, assigns, and other legal representatives.

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IN WITNESS WHEREOF, the parties hereto have caused this Assignment to be executed as of the Effective Date. The individuals signing for the parties represent and warrant that he or she has authority to sign for and enter into this Assignment on behalf of the respective parties.

Seller:

Notary Seal:

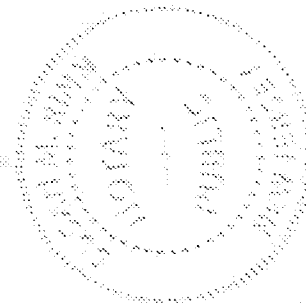
Daqri, LLC,

By: 

Name: CHARLES GOLDSTEIN

Title: CRO

Date: 6-15-2020



Sworn to and subscribed
before me this
15 day of June, 2020

Susan M Rinn

Buyer:

RPX Corporation

By: 

Name: Emily Gavin

Title: General Counsel

Date: 6 16 2020

SUSAN M. RINN
NOTARY PUBLIC OF NEW JERSEY
ID # 50032700
My Commission Expires 2/18/2021

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SCHEDULE 1

PATENTS AND PATENT APPLICATIONS

Patent Number	Application Number	Title	Status	File Date	Publication/Issue Date
US9495748	US13/840097	Segmentation of content delivery	Active	3/15/2013	11/15/2016
	AU20140235369	Segmentation of content delivery	Active	3/12/2014	2/2/2017
	DE14769352	Segmentation of content delivery			
	EP20140769352	Segmentation of content delivery	Active	3/12/2014	7/25/2018
	FR14769352	Segmentation of content delivery			
	JP20160501635	Content delivery segmentation	Active	3/12/2014	8/30/2017
US9858707	KR20157029855	Segmentation of content delivery	Active	3/12/2014	5/4/2017
	NZ20140713311	Segmentation of content delivery	Active	3/12/2014	10/27/2017
	WO2014US24765	Segmentation of content delivery	Expired	3/12/2014	9/25/2014
	US62/273006	3d video reconstruction system	Expired	12/30/2015	
US9773349	US15/394740	3d video reconstruction system	Active	12/29/2016	1/2/2018
	WO2016US69302	3d video reconstruction system	Expired	12/29/2016	7/6/2017
	US14/184523	Active parallax correction	Active	2/19/2014	9/26/2017
	EP20150752367	Active parallax correction	Expired	2/18/2015	12/28/2016
US10026230	WO2015US16375	Active parallax correction	Expired	2/18/2015	8/27/2015
	US15/085097	Augmented point cloud for a visualization system and method	Active	3/30/2016	7/17/2018
US9898844	US14/145458	Augmented reality content adapted to changes in real world space geometry	Active	12/31/2013	2/20/2018
	EP20140876769	Augmented reality content adapted to space geometry	Expired	12/17/2014	11/9/2016
	WO2014US70823	Augmented reality content adapted to space geometry	Expired	12/17/2014	7/9/2015

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Patent Number	Application Number	Title	Status	File Date	Publication/Issue Date
US10347046	US15/625229	Augmented reality transportation notification system	Active	6/16/2017	7/9/2019
US10110883	US62/235018	Bidirectional holographic lens	Expired	9/30/2015	
	US15/283163	Bidirectional holographic lens	Active	9/30/2016	10/23/2018
	WO2016US55038	Bidirectional holographic lens	Expired	9/30/2016	4/6/2017
US10387719	US62/339748	Biometric based false input detection for a wearable computing device	Expired	5/20/2016	
	US15/600104	Biometric based false input detection for a wearable computing device	Active	5/19/2017	8/20/2019
US9240075	US13/839968	Campaign optimization for experience content dataset	Active	3/15/2013	1/19/2016
US9760777	US14/996958	Campaign optimization for experience content dataset	Active	1/15/2016	9/12/2017
	AU20140235442	Campaign optimization for experience content dataset	Active	3/12/2014	9/22/2016
	DE14768345	Campaign optimization for experience content dataset			
	EP20140768345	Campaign optimization for experience content dataset	Active	3/12/2014	10/4/2017
	FR14768345	Campaign optimization for experience content dataset			
	JP20160501621	Campaign optimization for experience content datasets	Active	3/12/2014	10/25/2016
	KR20157029846	Campaign optimization for experience content dataset	Active	3/12/2014	10/19/2016

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Patent Number	Application Number	Title	Status	File Date	Publication/Issue Date
	NZ20140713292	Campaign optimization for experience content dataset	Active	3/12/2014	4/28/2017
	WO2014US24728	Campaign optimization for experience content dataset	Expired	3/12/2014	9/25/2014
US9262865	US13/840048	Content creation tool	Active	3/15/2013	2/16/2016
US9679416	US15/041395	Content creation tool	Active	2/11/2016	6/13/2017
US10147239	US15/617951	Content creation tool	Active	6/8/2017	12/4/2018
	AU20140235427	Content creation tool	Active	3/12/2014	7/7/2016
	EP20140770112	Content creation tool	Active	3/12/2014	1/20/2016
	JP20160501608	Content creation tool	Active	3/12/2014	11/9/2016
	KR20157029881	Content creation tool	Active	3/12/2014	5/18/2017
	NZ20140713294	Content creation tool	Active	3/12/2014	2/24/2017
	WO2014US24698	Content creation tool	Expired	3/12/2014	9/25/2014
US9865093	US15/199570	Contextual augmented reality devices collaboration	Active	6/30/2016	1/9/2018
US10445937	US15/794729	Contextual augmented reality devices collaboration	Active	10/26/2017	10/15/2019
US9070217	US13/839818	Contextual local image recognition dataset	Active	3/15/2013	6/30/2015
US9613462	US14/747043	Contextual local image recognition dataset	Active	6/23/2015	4/4/2017
US10210663	US15/444115	Contextual local image recognition dataset	Active	2/27/2017	2/19/2019
	US16/249656	Contextual local image recognition dataset	Pending	1/16/2019	5/16/2019

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Patent Number	Application Number	Title	Status	File Date	Publication/Issue Date
US9639984	AU20140235484	Contextual local image recognition dataset	Active	3/12/2014	10/12/2017
	EP20140769648	Contextual local image recognition dataset	Active	3/12/2014	1/20/2016
	JP20160501589	Contextual local image recognition dataset	Expired	3/12/2014	7/21/2016
	KR20157029890	Contextual local image recognition dataset	Active	3/12/2014	11/23/2015
	NZ20140713286	Contextual local image recognition dataset	Active	3/12/2014	2/23/2018
	WO2014US24625	Contextual local image recognition dataset	Expired	3/12/2014	9/25/2014
	US13/909046	Data manipulation based on real world object manipulation	Active	6/3/2013	5/2/2017
	AU20140275191	Data manipulation based on real world object manipulation	Active	6/2/2014	8/24/2017
	EP20140807284	Data manipulation based on real world object manipulation	Expired	6/2/2014	4/13/2016
	JP20160518384	Data manipulation based on real world object manipulation	Active	6/2/2014	9/6/2017
73728324.15	KR20157037217	Data manipulation based on real world object manipulation	Active	6/2/2014	11/29/2017
	NZ20140715232	Data manipulation based on real world object manipulation	Active	6/2/2014	2/23/2018
	WO2014US40555	Data manipulation based on real world object manipulation	Expired	6/2/2014	12/11/2014

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Patent Number	Application Number	Title	Status	File Date	Publication/Issue Date
US9807383	US15/085084	Wearable video headset and method for calibration	Active	3/30/2016	10/31/2017
US10127731	US15/691613	Directional augmented reality warning system	Active	8/30/2017	11/13/2018
US9934587	US15/199832	Deep image localization	Active	6/30/2016	4/3/2018
US10614581	US15/880364	Deep image localization	Active	1/25/2018	4/7/2020
US9406171	US14/467391	Distributed aperture visual inertia navigation	Active	8/25/2014	8/2/2016
	EP20150836115	Distributed aperture visual inertia navigation	Active	8/21/2015	7/26/2017
	WO2015US46269	Distributed aperture visual inertia navigation	Expired	8/21/2015	3/3/2016
	US62/114195				
US9844119	US15/019031	Dynamic lighting for head mounted device	Active	2/9/2016	12/12/2017
	WO2016US17133	Dynamic lighting for head mounted device	Expired	2/9/2016	8/18/2016
US9934754	US14/870701	Dynamic sensor array for augmented reality system	Active	9/30/2015	4/3/2018
	WO2016US54555	Dynamic sensor array for augmented reality system	Expired	9/29/2016	4/6/2017
US10334240	US15/338049	Efficient augmented reality display calibration	Active	10/28/2016	6/25/2019
	US62/442407	Environmental mapping system			
US10489975	US15/861401	Environmental mapping system	Active	1/3/2018	11/26/2019

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Patent Number	Application Number	Title	Status	File Date	Publication/Issue Date
US9412205	US14/467428	Extracting sensor data for augmented reality content	Active	8/25/2014	8/9/2016
	WO2015US46282	Extracting sensor data for augmented reality content	Expired	8/21/2015	3/3/2016
US10592000	US15/466767	Gesture-based gui for computing devices	Active	3/22/2017	3/17/2020
	US60/420638	Augmented reality registration method based on matching templates generated from an image texture	Expired	10/22/2002	
	US60/513725	Registrating a specific planar scene using fiducial markers	Expired	10/22/2003	
US7343278	US10/692020	Tracking a surface in a 3-dimensional scene using natural visual features of the surface	Active	10/22/2003	3/11/2008
US7987079	US12/046389	Tracking a surface in a 3-dimensional scene using natural visual features of the surface	Active	3/11/2008	7/26/2011
	AT20030796236T	Tracking a surface in a three-dimensional scene using natural visual features of the surface	Expired	10/22/2003	9/15/2011
	AU20030298491	Tracking a surface in a 3-dimensional scene using natural visual features of the surface	Expired	10/22/2003	5/13/2004
	EP20030796236	Tracking a surface in a 3-dimensional scene using natural visual features of the surface	Active	10/22/2003	8/24/2011

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Patent Number	Application Number	Title	Status	File Date	Publication/Issue Date
	JP20040546322	Surface tracking in 3d scenes using natural visual features of the surface	Expired	10/22/2003	3/2/2006
	NZ20030539632 PCT/US03/34292	Tracking a surface in a 3-dimensional scene using natural visual features of the surface	Expired	10/22/2003	1/31/2008
	JP2006507722	Tracking a surface in a 3-dimensional scene using natural visual features of the surface		10/22/2003	4/21/2010
	WO20031B06418	Tracking a surface in a 3-dimensional scene using natural visual features of the surface	Expired	10/22/2003	5/6/2004
US10649209	US15/206111 US16/845018 US16/877490	Optical combiner apparatus	Active Pending	7/8/2016	5/12/2020
	WO2017US41228	Optical combiner apparatus	Expired	7/7/2017	1/11/2018
	US62/355112	Near eye diffractive holographic projection method	Expired	6/27/2016	
US10444509	US15/635025	Near eye diffractive holographic projection method	Active	6/27/2017	10/15/2019
US9916664	US15/019382	Multi-spectrum segmentation for computer vision	Active	2/9/2016	3/13/2018
US10366495	US15/880886	Multi-spectrum segmentation for computer vision	Active	1/26/2018	7/30/2019
US10488666	US15/893599	Optical waveguide devices, methods and systems incorporating same	Active	2/10/2018	11/26/2019

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Patent Number	Application Number	Title	Status	File Date	Publication/Issue Date
	US16/658078	Optical waveguide devices, methods and systems incorporating same	Pending	10/19/2019	2/13/2020
US8384999	US13/345769	Optical modules	Active	1/9/2012	2/26/2013
US9264479	US14/144359	Offloading augmented reality processing	Active	12/30/2013	2/16/2016
US9672660	US15/041437	Offloading augmented reality processing	Active	2/11/2016	6/6/2017
US9990759	US15/592939	Offloading augmented reality processing	Active	5/11/2017	6/5/2018
US10586395	US15/974998	Remote object detection and local tracking using visual odometry	Active	5/9/2018	3/10/2020
	EP20140875991	Offloading augmented reality processing	Expired	12/10/2014	11/9/2016
	WO2014US69536	Offloading augmented reality processing	Expired	12/10/2014	7/9/2015
US9354702	US13/909042	Manipulation of virtual object in augmented reality via thought	Active	6/3/2013	5/31/2016
US9996155	US15/144545	Manipulation of virtual object in augmented reality via thought	Active	5/2/2016	6/12/2018
	AU20140275189	Manipulation of virtual object in augmented reality via thought	Active	6/2/2014	12/22/2016
	EP20140808371	Manipulation of virtual object in augmented reality via thought	Expired	6/2/2014	4/13/2016
	JP20160518383	Manipulation of virtual objects in augmented reality through thinking	Active	6/2/2014	12/7/2016
	KR20157037131	Manipulation of virtual object in augmented reality via thought	Active	6/2/2014	1/6/2017
	WO2014US40552	Manipulation of virtual object in augmented reality via thought	Expired	6/2/2014	12/11/2014
US9626801	US14/145567	Visualization of physical characteristics in augmented reality	Active	12/31/2013	4/18/2017

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Patent Number	Application Number	Title	Status	File Date	Publication/Issue Date
US9558592	US14/461257	Visualization of physical interactions in augmented reality	Active	8/15/2014	1/31/2017
	US15/389095	Visualization of physical interactions in augmented reality	Abandoned	12/22/2016	4/13/2017
	US15/476778	Visualization of physical characteristics in augmented reality	Abandoned	3/31/2017	7/20/2017
	EP20140876959	Visualization of physical characteristics in augmented reality	Expired	12/15/2014	11/9/2016
	WO2014US70298	Visualization of physical characteristics in augmented reality	Expired	12/15/2014	7/9/2015
	WO2015US45029	Visualization of physical interactions in augmented reality	Expired	8/13/2015	2/18/2016
US10007115	US14/825148	Placement of a computer generated display with focal plane at finite distance using optical devices and a see-through head-mounted display incorporating the same	Active	8/12/2015	6/26/2018
	WO2016US41588	Placement of a computer generated display with focal plane at finite distance using optical devices and a see-through head-mounted display incorporating the same	Expired	7/8/2016	2/16/2017
US10089791	US15/393256	Predictive augmented reality assistance system	Active	12/29/2016	10/2/2018
US9659381	US14/605249	Real time texture mapping for augmented reality system	Active	1/26/2015	5/23/2017

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Patent Number	Application Number	Title	Status	File Date	Publication/Issue Date
US9607584	WO2016US14453	Real time texture mapping	Expired	1/22/2016	8/4/2016
	US13/840359	Real world analytics visualization	Active	3/15/2013	3/28/2017
	AU20140235416	Real world analytics visualization	Active	3/12/2014	4/13/2017
	EP20140770915	Real world analytics visualization	Expired	3/12/2014	1/20/2016
	JP20160501599	Real-world analysis visualization	Expired	3/12/2014	5/23/2016
	KR20157029875	Real world analytics visualization	Active	3/12/2014	7/18/2017
	WO2014US24670	Real world analytics visualization	Expired	3/12/2014	9/25/2014
US9585581	US14/870900	Real-time biometric detection of oscillatory phenomena and voltage events	Active	9/30/2015	3/7/2017
US10187686	US62/312823	Recording Remote Expert Sessions	Expired	3/24/2016	
	US15/468476	Recording remote expert sessions	Active	3/24/2017	1/22/2019
	US16/222275	Recording remote expert sessions	Pending	12/17/2018	4/25/2019
US9665985	US14/461252	Remote expert system	Active	8/15/2014	5/30/2017
US10198869	US15/489525	Remote expert system	Active	4/17/2017	2/5/2019
	AU20150301620	Remote expert system	Active	8/13/2015	2/23/2017
	EP20150832547	Remote expert system	Expired	8/13/2015	6/21/2017
	JP20170507771	Remote expert system	Active	8/13/2015	10/26/2017
	KR20177006975	Remote expert system	Active	8/13/2015	4/17/2017
	WO2015US45018	Remote expert system	Expired	8/13/2015	2/18/2016
US9578399	US14/467700	Remote sensor access and queuing	Active	8/25/2014	2/21/2017
US9978174	US15/393257	Remote sensor access and queuing	Active	12/29/2016	5/22/2018
	WO2015US46321	Remote sensor access and queuing	Expired	8/21/2015	3/3/2016
US9599825	US14/870871	Visual indicator for transparent display alignment	Active	9/30/2015	3/21/2017

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Patent Number	Application Number	Title	Status	File Date	Publication/Issue Date
	WO2016US54545	Visual indicator for transparent display alignment	Expired	9/29/2016	4/6/2017
US9625724	US14/477687	Retractable display for head mounted device	Active	9/4/2014	4/18/2017
	WO2015US47683	Retractable display for head mounted device	Expired	8/31/2015	3/10/2016
US9727977	US14/584855	Sample based color extraction for augmented reality	Active	12/29/2014	8/8/2017
	WO2015US66643	Sample based color extraction for augmented reality	Expired	12/18/2015	7/7/2016
US10067737	US15/691602	Smart audio augmented reality system	Active	8/30/2017	9/4/2018
	US62/120776	Visual gestures for a head mounted device	Pending	2/25/2015	
US9652047	US15/052775	Visual gestures for a head mounted device	Active	2/24/2016	5/16/2017
	WO2016US19418	Visual gestures for a head mounted device	Expired	2/24/2016	9/1/2016
US9799142	US14/461264	Spatial data collection	Active	8/15/2014	10/24/2017
	WO2015US45084	Spatial data collection	Expired	8/13/2015	2/18/2016
US9830395	US14/461266	Spatial data processing	Active	8/15/2014	11/28/2017
	WO2015US45233	Spatial data processing	Expired	8/14/2015	2/18/2016
US9799143	US14/461277	Spatial data visualization	Active	8/15/2014	10/24/2017
	WO2015US45238	Spatial data visualization	Expired	8/14/2015	2/18/2016
US9824437	US14/966666	System and method for tool mapping	Active	12/11/2015	11/21/2017
US10217209	US15/791041	System and method for tool mapping	Active	10/23/2017	2/26/2019

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	US16/247194	System and method for tool mapping	Pending	1/14/2019	5/16/2019
	WO2016US65943	System and method for tool mapping	Expired	12/9/2016	6/15/2017
US9536355	US15/080414	Thermal detection in an augmented reality system	Active	3/24/2016	1/3/2017
	US62/163046	Threat identification system	Expired	5/18/2015	
US9619712	US15/158498	Threat identification system	Active	5/18/2016	4/11/2017
US9864910	US15/448285	Threat identification system	Active	3/2/2017	1/9/2018
	WO2016US33149	Threat identification system	Expired	5/18/2016	11/24/2016
US9865058	US14/184294	Three-dimensional mapping system	Active	2/19/2014	1/9/2018
	US15/711317	Three-dimensional mapping system	Pending	9/21/2017	1/11/2018
	EP20150752437	Three-dimensional mapping system	Expired	2/18/2015	12/28/2016
	WO2015US16389	Three-dimensional mapping system	Expired	2/18/2015	8/27/2015
	US62/441249	User input validation and verification for augmented and mixed reality experiences	Expired	12/31/2016	
US10564720	US15/807032	User input validation and verification for augmented and mixed reality experiences	Active	11/8/2017	2/18/2020
	US62/352484	User status indicator of an augmented reality system	Expired	6/20/2016	
US10168778	US15/627286	User status indicator of an augmented reality system	Active	6/19/2017	1/1/2019
US10379345	US15/595607	Virtual expansion of desktop	Active	5/15/2017	8/13/2019
US9535496	US13/840268	Visual gestures	Active	3/15/2013	1/3/2017
US10585473	US15/372270	Visual gestures	Active	12/7/2016	3/10/2020

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	WO2014US24796	Visual gestures	Expired	3/12/2014	9/25/2014
US10212000	US15/659180	Computer vision based activation	Active	7/25/2017	2/19/2019
US10652041	US16/238203	Computer vision based activation	Active	1/2/2019	5/12/2020
	US62/025916	Design Pro Easy Motion Animator	Expired	7/17/2014	
	US14/802813	Armature and character template for motion animation sequence generation	Abandoned	7/17/2015	1/21/2016
US9754399	US14/802820	Customized augmented reality animation generator	Active	7/17/2015	9/5/2017
US10096144	US15/695653	Customized augmented reality animation generator	Active	9/5/2017	10/9/2018
US10481678	US15/404172	Interface-based modeling and design of three dimensional spaces using two dimensional representations	Active	1/11/2017	11/19/2019
	US16/596648	Interface-based modeling and design of three dimensional spaces using two dimensional representations	Pending	10/8/2019	2/6/2020
	US62/164276	Light-based radar system for augmented reality	Expired	5/20/2015	
US9984508	US15/159763	Light-based radar system for augmented reality	Active	5/19/2016	5/29/2018
	WO2016US33375	Light-based radar system for augmented reality	Expired	5/19/2016	11/24/2016
US9383819	US13/908621	Manipulation of virtual object in augmented reality via intent	Active	6/3/2013	7/5/2016
US9996983	US15/171762	Manipulation of virtual object in augmented reality via intent	Active	6/2/2016	6/12/2018

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	AU20140275184	Manipulation of virtual object in augmented reality via intent	Active	6/2/2014	6/23/2016
	EP20140807097	Manipulation of virtual object in augmented reality via intent	Active	6/2/2014	4/13/2016
	JP20160518381	Manipulating virtual objects in augmented reality via intention	Active	6/2/2014	9/6/2016
	KR20157037170	Manipulation of virtual object in augmented reality via intent	Active	6/2/2014	5/11/2017
	WO2014US40538	Manipulation of virtual object in augmented reality via intent	Expired	6/2/2014	12/11/2014
	US15/061865	Spatial cooperative programming language	Abandoned	3/4/2016	9/7/2017
	US62/114175	Removable face shield for augmented reality device	Expired	2/10/2015	
	US15/018009	Removable face shield for augmented reality device	Abandoned	2/8/2016	8/11/2016
	WO2016US16963	Removable face shield for augmented reality device	Expired	2/8/2016	8/18/2016
	US15/073958	Responsive augmented content	Abandoned	3/18/2016	9/21/2017
	US15/459921	Data manipulation based on real world object manipulation	Abandoned	3/15/2017	9/20/2018
	US62/164192	Acousto-optical display for augmented reality	Expired	5/20/2015	
	US15/159746	Acousto-optical display for augmented reality	Abandoned	5/19/2016	11/24/2016

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	WO2016US33365	Acousto-optical display for augmented reality	Expired	5/19/2016	11/24/2016
	US62/118360	Active surface projection correction	Expired	2/19/2015	
	US15/047172	Active surface projection correction	Abandoned	2/18/2016	8/25/2016
	WO2016US18639	Active surface projection correction	Expired	2/19/2016	8/25/2016
	US14/144370	Assigning a virtual user interface to a physical object	Abandoned	12/30/2013	7/2/2015
	EP20140876870	Assigning virtual user interface to physical object	Expired	12/12/2014	11/9/2016
	WO2014US70090	Assigning virtual user interface to physical object	Expired	12/12/2014	7/9/2015
	US62/441219	Attention, comprehension, and drowsiness monitoring via head mounted device supporting augmented and mixed reality experiences	Expired		
	US15/807026	Attention, comprehension, and drowsiness monitoring via head mounted device supporting augmented and mixed reality experiences	Pending	11/8/2017	7/5/2018
	US14/145338	Audio based on captured image data of visual content	Abandoned	12/31/2013	7/2/2015
	EP20140876622	Audio based on captured image data	Expired	12/17/2014	11/9/2016
	WO2014US70865	Audio based on captured image data	Expired	12/17/2014	7/9/2015
	US62/120808	Augmented reality content creation			
	US15/043959	Augmented reality content creation	Pending	2/15/2016	8/25/2016
	WO2016US17974	Augmented reality content creation	Expired	2/15/2016	9/29/2016

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	US15/199794	Augmented reality failsafe mode	Abandoned	6/30/2016	1/4/2018
	US15/660642	Augmented reality sensor	Pending	7/26/2017	1/31/2019
	US15/393255	Augmented reality user interface visibility	Abandoned	12/29/2016	7/5/2018
	US62/163030	Biometric authentication in a head mounted device	Expired	5/18/2015	
	US15/158473	Biometric authentication in a head mounted device	Abandoned	5/18/2016	11/24/2016
	WO2016US33145	Biometric authentication in a head mounted device	Expired	5/18/2016	11/24/2016
	US15/089293	Biometric sensor for determining heart rate using photoplethysmograph	Abandoned	4/1/2016	10/5/2017
	US15/081309	Classifying work processes	Abandoned	3/25/2016	9/28/2017
	US15/162081	Confidential information occlusion using augmented reality	Abandoned	5/23/2016	11/23/2017
	US62/163037	Context-based augmented reality content delivery	Expired		
	US15/158482	Context-based augmented reality content delivery	Abandoned	5/18/2016	11/24/2016
	WO2016US33148	Context-based augmented reality content delivery	Expired	5/18/2016	11/24/2016
	US16/114772	Determining a pose of an object from rgb-d images	Pending	8/28/2018	3/5/2020

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	US15/089345	Deviation-induced dynamic modulation of impulse response for detection and modeling	Abandoned	4/1/2016	10/5/2017
	US62/110259	Digitized interactions with an identified object	Expired		
	US15/006843	Digitized interactions with an identified object	Abandoned	1/26/2016	8/4/2016
	WO2016US15079	Digitized interactions with an identified object	Expired	1/27/2016	8/4/2016
	US15/692764	Directional augmented reality system	Pending	8/31/2017	2/28/2019
	US15/483484	Dynamic scaling of augmented reality-based game	Abandoned	4/10/2017	10/11/2018
	US15/852190	Efficient tracking using a mobile device	Pending	12/22/2017	6/27/2019
	US14/749384	Electrode contact quality	Abandoned	6/24/2015	12/29/2016
	WO2016US33144	Electrode contact quality	Expired	5/18/2016	12/29/2016
	US62/312813	Eye tracking via transparent near eye lens	Expired	3/24/2016	
	US15/468470	Eye tracking via transparent near eye lens	Abandoned	3/24/2017	9/28/2017
	US15/464194	Gesture-based graphical keyboard for computing devices	Pending	3/20/2017	9/20/2018
	US62/110932	Head mounted display calibration	Expired		
	US15/013333	Head mounted display calibration	Abandoned	2/2/2016	8/4/2016
	WO2016US16117	Head mounted display calibration	Expired	2/2/2016	8/11/2016

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	US15/282961	Head-mounted display and intelligent tool for generating and displaying augmented reality content	Abandoned	9/30/2016	4/5/2018
	US15/243730	Integrating augmented reality content and thermal imagery	Abandoned	8/22/2016	2/22/2018
	US15/282946	Intelligent tool for generating augmented reality content	Abandoned	9/30/2016	4/5/2018
	US15/059129	Low-noise multi-channel voltage recording device	Pending	3/2/2016	9/7/2017
	US14/144395	Mapping gestures to virtual functions	Abandoned	12/30/2013	7/2/2015
	EP20140876352	Mapping gestures to virtual functions	Expired	12/17/2014	11/9/2016
	WO2014US70814	Mapping gestures to virtual functions	Expired	12/17/2014	7/9/2015
	US15/595657	Spatially translated dimensions of unseen object	Abandoned	5/15/2017	11/15/2018
	US15/448391	System and method for authoring and sharing content in augmented reality	Pending	3/2/2017	9/6/2018
	US62/118337	System and method for using millimeter wave in a wearable device	Expired		
	US15/047818	System and method for using millimeter wave in a wearable device	Abandoned	2/19/2016	8/25/2016
	WO2016US18647	Wearable device having millimeter wave sensors	Expired	2/19/2016	8/25/2016
	US62/275009	Task management system and method using augmented reality devices	Expired	1/5/2016	

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	US15/399529	Task management system and method using augmented reality devices	Abandoned	1/5/2017	7/6/2017
	WO2017US12372	Task management using augmented reality devices	Expired	1/5/2017	7/13/2017
	US14/870799	User interface for augmented reality system	Abandoned	9/30/2015	3/30/2017
	US15/421320	Virtual content scaling with a hardware controller	Abandoned	1/31/2017	8/2/2018
	US62/164177	Virtual personification for augmented reality system	Expired	5/20/2015	
	US15/159743	Virtual personification for augmented reality system	Abandoned	5/19/2016	11/24/2016
	WO2016US33368	Virtual personification for augmented reality system	Expired	5/19/2016	11/24/2016
	US16/114759	Voting space-based loop closure detection	Pending	8/28/2018	3/5/2020
	US62/235114	Optical true time delay circuit in a head-mounted display	Expired	9/30/2015	
	US15/283215	Optical true time delay circuit in a head-mounted display	Abandoned	9/30/2016	3/30/2017
	WO2016US55051	Optical true time delay circuit	Expired	9/30/2016	4/6/2017
	US62/273612	Path visualization for motion planning	Expired	12/31/2015	
	US15/396109	Path visualization for motion planning	Abandoned	12/30/2016	7/6/2017
	WO2016US69572	Augmented reality based path visualization for motion planning	Expired	12/30/2016	7/6/2017

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	US15/161089	Multi-sensor position and orientation determination system and device	Abandoned	5/20/2016	11/23/2017
	US14/467438	Navigating augmented reality content with a watch	Abandoned	8/25/2014	2/25/2016
	WO2015US46289	Navigating augmented reality content with a watch	Expired	8/21/2015	3/3/2016
	US15/243715	Occluding augmented reality content or thermal imagery for simultaneous display	Abandoned	8/22/2016	2/22/2018
	US62/395226	Peripheral device for head-mounted display	Expired	9/15/2016	
	US15/699494	Peripheral device for head-mounted display	Pending	9/8/2017	3/15/2018
	US62/488538	Peripheral device for head-mounted display	Expired		
	US15/699507	Peripheral device for head-mounted display	Pending	9/8/2017	3/15/2018
	US14/145182	Physical object discovery	Abandoned	12/31/2013	7/2/2015
	EP20140876065	Physical object discovery	Expired	12/15/2014	11/9/2016
	WO2014US70342	Physical object discovery	Expired	12/15/2014	7/9/2015
	EP20160003859	Reducing latency in augmented reality displays	Active	3/19/2019	9/25/2019
USD820319	US29/601400	Electronic device	Active	4/21/2017	6/12/2018
USD820318	US29/600418	Electronic device	Active	4/12/2017	6/12/2018
USD777379	US29/500344	Head mounted display helmet	Active	8/25/2014	1/24/2017

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	JP20150019329F		Active	2/25/2015	7/4/2016
	JP20150019330F		Active	2/25/2015	6/20/2016
	JP20150019331F		Active	2/25/2015	3/22/2016
	JP20150019328F		Active	2/25/2015	3/22/2016
	JP20150019327F		Active	2/25/2015	3/22/2016
	JP20150003959F		Active	2/25/2015	3/22/2016
USD801587	US29/579642	Headwear	Active	9/30/2016	10/31/2017
USD800727	US29/579579	Headwear	Active	9/30/2016	10/24/2017
USD777381	US29/524965	Headwear	Active	4/24/2015	1/24/2017
USD850444	US29/579603	Portable computing device	Active	9/30/2016	6/4/2019
USD750329	US29/523291		Active	4/8/2015	2/23/2016
	US62/777474		Expired	12/10/2018	
	US16/709787	Adaptive Viewports for Hypervocal Viewpoint	Pending	12/10/2019	
	US62/790458		Expired	1/9/2019	
	US16/739103	Non-uniform sub-pupil reflectors and methods in Optical Waveguides for AR, HMD and HUD applications	Pending	1/9/2020	
	US16/399376	Systems and Methods for Providing a User Interface for an Environment that Includes Virtual Objects	Allowed	1/30/2019	
	US16/414696	Systems and Methods for Providing a User Interface for an Environment that Includes Virtual Objects	Pending	1/16/2019	

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	PCT/US2020/014114	Systems and Methods For Generating Composite Depth Images Based on Signals From an Inertial Sensor	Pending	1/17/2020	
	US16/254574	Systems and Methods For Generating Composite Depth Images Based on Signals From an Inertial Sensor	Allowed	1/22/2019	
	US16/899398	Systems and Methods For Generating Composite Depth Images Based on Signals From an Inertial Sensor	Pending	6/11/2020	

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