

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4151647

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
REALD INC.	10/26/2016

RECEIVING PARTY DATA

Name:	REALD SPARK, LLC
Street Address:	100 N. CRESCENT DRIVE
Internal Address:	SUITE 200
City:	BEVERLY HILLS
State/Country:	CALIFORNIA
Postal Code:	90210

PROPERTY NUMBERS Total: 111

Property Type	Number
Patent Number:	8651726
Patent Number:	9250448
Patent Number:	9237337
Patent Number:	9350980
Patent Number:	9235057
Patent Number:	9188731
Patent Number:	9429764
Patent Number:	8917441
Patent Number:	9420266
Patent Number:	9001423
Patent Number:	9436015
Patent Number:	9225971
Patent Number:	9407868
Patent Number:	9482874
Application Number:	12579178
Application Number:	13300293
Application Number:	13565643
Application Number:	13839552
Application Number:	13896870

PATENT

Property Type	Number
Application Number:	13897039
Application Number:	13897102
Application Number:	13897150
Application Number:	13897163
Application Number:	13897236
Application Number:	13897261
Application Number:	14186862
Application Number:	14448098
Application Number:	14513120
Application Number:	14538411
Application Number:	14663251
Application Number:	14757893
Application Number:	14821515
Application Number:	14993042
Application Number:	15012758
Application Number:	15165960
Application Number:	15199106
Application Number:	61105397
Application Number:	61415810
Application Number:	61486021
Application Number:	61496319
Application Number:	61526756
Application Number:	61648840
Application Number:	61648873
Application Number:	61648888
Application Number:	61648942
Application Number:	61648995
Application Number:	61649050
Application Number:	61649054
Application Number:	61649087
Application Number:	61649116
Application Number:	61649124
Application Number:	61649133
Application Number:	61649136
Application Number:	61649141
Application Number:	61649149
Application Number:	61674735
Application Number:	61709038

Property Type	Number
Application Number:	61709051
Application Number:	61709068
Application Number:	61727421
Application Number:	61745160
Application Number:	61745334
Application Number:	61768371
Application Number:	61791112
Application Number:	61791928
Application Number:	61835923
Application Number:	61860364
Application Number:	61890437
Application Number:	61890456
Application Number:	61890469
Application Number:	61904880
Application Number:	61934086
Application Number:	61968935
Application Number:	62017337
Application Number:	62061467
Application Number:	62096819
Application Number:	62146648
Application Number:	62154932
Application Number:	62167185
Application Number:	62167203
Application Number:	62246584
Application Number:	62261151
Application Number:	62274897
Application Number:	62339081
Application Number:	62340382
PCT Number:	US2011061511
PCT Number:	US2012037677
PCT Number:	US2012042279
PCT Number:	US2012052189
PCT Number:	US2013041192
PCT Number:	US2013041228
PCT Number:	US2013041235
PCT Number:	US2013041237
PCT Number:	US2013041548
PCT Number:	US2013041619

Property Type	Number
PCT Number:	US2013041655
PCT Number:	US2013041683
PCT Number:	US2013041697
PCT Number:	US2013041703
PCT Number:	US2013049969
PCT Number:	US2013063125
PCT Number:	US2013063133
PCT Number:	US2013077288
PCT Number:	US2014017779
PCT Number:	US2014042721
PCT Number:	US2014060312
PCT Number:	US2014060368
PCT Number:	US2014065020
PCT Number:	US2015000327
PCT Number:	US2015021583
Application Number:	13911886

CORRESPONDENCE DATA

Fax Number: (303)440-0206
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: 303-500-6151
Email: patpros@reald.com
Correspondent Name: STEFAN T. BUMP
Address Line 1: 5700 FLATIRON PARKWAY
Address Line 4: BOULDER, COLORADO 80301

ATTORNEY DOCKET NUMBER:	REALD SPARK LLC
NAME OF SUBMITTER:	STEFAN T. BUMP
SIGNATURE:	/Stefan T. Bump/
DATE SIGNED:	11/21/2016

Total Attachments: 15
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CONTRIBUTION AGREEMENT

This **CONTRIBUTION AGREEMENT** (this “Agreement”) is made and entered into as of October 26, 2016, by and between RealD Inc., a Delaware corporation (“Parent”) and RealD Spark, LLC, a Delaware limited liability company (“RealD Spark”).

RECITALS

WHEREAS, Parent owns certain tangible and intangible assets related to (i) its Intelligent Backlight Technology business and its related products, services and technologies (which technologies consist of a light-field controlling liquid crystal display (LCD) backlight technology using a directional light guide and imaging microstructured reflector illuminated by an addressable light-emitting diode (LED) array), and (ii) its SocialEyes Technology business and its related products, services and technologies (which technologies consist of a software solution based on facial feature tracking and image processing that adjusts the direction of the eyes to create natural eye contact between users) (collectively, the “IBT Business”), which assets are set forth on Annex A hereto (the “Contributed Assets”); and

WHEREAS, Parent, as the sole stockholder of RealD Spark, desires to contribute to RealD Spark, and RealD Spark desires to accept and assume from Parent, the Contributed Assets as a contribution to the capital of RealD Spark (the “Contribution”).

NOW, THEREFORE, in consideration of the mutual covenants and promises contained herein and for other good and valuable consideration the receipt and adequacy of which are hereby acknowledged, the parties hereto agree as follows:

Section 1. Contribution.

(a) Parent hereby transfers, conveys, contributes, assigns and delivers to RealD Spark Parent’s entire right, title and interest in and to the Contributed Assets, together with any rights, obligations, encumbrances and liabilities related thereto (including all rights to recover damages for any and all past, current or future infringement, and the right to file applications and make claims of priority to any patents included under the Contributed Assets under the patent laws of any other international agreement or convention or the domestic laws of any country in which such application is filed), as fully and entirely as the same would have been held and enjoyed by Parent had this assignment and sale not been made. RealD Spark hereby accepts the Contributed Assets and accepts and assumes all such rights, obligations, encumbrances and liabilities related thereto (including with respect to the contracts listed on Annex A).

(b) If any asset, including tangible personal property, intellectual property, technology, contracts, payment of receivables or other communications, that primarily relates to the IBT Business, has not, but should have, been included in the Contributed Assets and conveyed to RealD Spark (the “Omitted Assets”), Parent will take such actions as are reasonably necessary to transfer, or cause to be transferred, such Omitted Assets to RealD Spark. Pending such transfer, Parent shall hold such Omitted Assets and provide to RealD Spark all of the benefits (including any amounts paid to Parent or its affiliates in respect thereof) and liabilities associated with the ownership thereof, and Parent shall cause such Omitted Assets to be used or

retained as may be reasonably instructed by RealD Spark. If any asset that is not primarily related to the IBT Business has, but should not have, been transferred or conveyed to RealD Spark (the “Extra Assets”), RealD Spark shall take such actions as are reasonably necessary to transfer, or cause to be transferred, such Extra Assets to Parent. Pending such transfer, RealD Spark shall hold such Extra Assets and provide to Parent all of the benefits (including any amounts paid to RealD Spark or its affiliates in respect thereof) and liabilities associated with the ownership thereof, and RealD Spark shall cause such Extra Assets to be used or retained as may be reasonably instructed by Parent.

Section 2. Miscellaneous.

(a) Amendments. This Agreement may be amended or modified only by a written instrument executed by all parties hereto.

(b) Governing Law. This Agreement, including its existence, validity, construction, and operating effect, and the rights of the parties hereto, shall be governed by and construed in accordance with the laws of the State of Delaware without regard to otherwise governing principles of choice of law or conflicts of law.

(c) Headings. The section headings contained in this Agreement are inserted for convenience only and shall not affect in any way the meaning or interpretation of this Agreement.

(d) Counterparts. This Agreement may be executed in any number of multiple counterparts, each of which shall be deemed to be an original copy and all of which shall constitute one agreement, binding on all parties hereto. Delivery of an executed counterpart of a signature page to this Agreement by facsimile or .pdf shall be effective as delivery of a manually executed counterpart of this Agreement.

(e) Successor and Assigns. This Agreement shall be binding upon, shall inure to the benefit of, and shall be enforceable by the parties and their respective legal representatives, successors and permitted assigns.

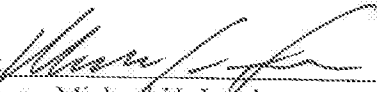
(f) Further Assurances. Each of the parties hereto does hereby covenant and agree on behalf of himself or itself, and his or its legal representatives, successors and permitted assigns, without further consideration, to prepare, execute, acknowledge, file, record, publish, and deliver such other instruments, documents and statements, and to take such other action as may be required by law or reasonably necessary to carry out the purposes of this Agreement.

(g) Severability. In the event that any provision of this Agreement as applied to any party or to any circumstance shall be adjudged by a court to be void, unenforceable or inoperative as a matter of law, then the same shall in no way affect any other provision in this Agreement, the application of such provision in any other circumstance or with respect to any other party, or the validity of enforceability of this Agreement as a whole.

(Signature Page Follows)

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date set forth above.

PARENT:
REALD INC.

By: 
Name: Michael V. Lewis
Title: Chief Executive Officer

REALD SPARK:
REALD SPARK, LLC

By: RealD Inc.
Its: Sole Member

By: 
Name: Michael V. Lewis
Title: Chief Executive Officer

[Signature Page to Contribution Agreement]

ANNEX A

Contributed Assets

See attached.

Patents

Patent Ref	App No.	App Title	Country	Filed Date	Registration Date	Patent No.
254000	61/105397	Autostereoscopic display with offset color filter array	United States of America	14 Oct 2008		
254001	12/579178	Lenticular display systems with offset color filter array	United States of America	14 Oct 2009		
254101	13/911886	Autostereoscopic display with offset color filter array	United States of America	06 Jun 2013		
281000	61/415810	Directional flat illuminators	United States of America	19 Nov 2010		
281001	13/300293	Directional flat illuminators	United States of America	18 Nov 2011		
281002	PCT/US11/61511	Directional flat illuminators	Patent Cooperation Treaty	18 Nov 2011		
281101	13/565643	Directional flat illuminators	United States of America	02 Aug 2012		
281201	14/339271	Directional flat illuminators	United States of America	23 Jul 2014	01 Nov 2016	9482874
289000	61/486021	Efficient polarized directional backlight	United States of America	13 May 2011		
289002	PCT/US12/37677	Efficient polarized directional backlight	Patent Cooperation Treaty	12 May 2012		
290000	61/496319	Segmented directional backlight	United States of America	13 Jun 2011		

290001	13/495898	Segmented directional backlight and related methods of backlight illumination	United States of America	13 Jun 2012	02 Feb 2016	9250448
290002	PCT/US12/42279	Segmented directional backlight	Patent Cooperation Treaty	13 Jun 2012		
290101	15/012758	Segmented directional backlight	United States of America	01 Feb 2016		
305000	61/526756	Auto-stereoscopic display with a passive cycloidal diffractive waveplate	United States of America	24 Aug 2011		
305001	13/593625	Auto-stereoscopic display with a passive cycloidal diffractive waveplate	United States of America	24 Aug 2012	12 Jan 2016	9237337
305002	PCT/US12/52189	Auto-stereoscopic display with a passive cycloidal diffractive waveplate	Patent Cooperation Treaty	24 Aug 2012		
314000	61/648840	Stepped imaging directional backlight arrays	United States of America	18 May 2012		
314001	13/838936	Directional Backlight	United States of America	15 Mar 2013	17 Nov 2015	9188731
314002	PCT/US13/41192	Directional backlight	Patent Cooperation Treaty	15 May 2013		
314101	14/821515	Stepped imaging directional backlight arrays	United States of America	07 Aug 2015		
315000	61/648873	Imaging directional backlight with two dimensional window arrays	United States of America	18 May 2012		

315001	13/897039	Directionally illuminated waveguide arrangement	United States of America	17 May 2013		
315002	PCT/US13/41619	Directionally illuminated waveguide arrangement	Patent Cooperation Treaty	17 May 2013		
316000	61/648888	Source conditioning for imaging directional backlights	United States of America	18 May 2012		
316001	13/897102	Source conditioning for imaging directional backlights	United States of America	17 May 2013		
316002	PCT/US13/41655	Source conditioning for imaging directional backlights	Patent Cooperation Treaty	17 May 2013		
317000	61/648942	Cross talk suppression apparatus and method thereof	United States of America	18 May 2012		
317001	13/836443	Crosstalk suppression in a directional backlight	United States of America	15 Mar 2013	24 May 2016	9350980
317002	PCT/US13/41228	Cross talk suppression in a directional backlight	Patent Cooperation Treaty	15 May 2013		
318000	61/648995	Method for forming reflective light extraction features	United States of America	18 May 2012		
319000	61/649050	Control system for a directional light source	United States of America	18 May 2012		
319001	13/897236	Control system for a directional light source	United States of America	17 May 2013		

319002	PCT/US13/41703	Control system for a directional light source	Patent Cooperation Treaty	17 May 2013		
323000	61/649087	Window forming elements for imaging directional backlights	United States of America	18 May 2012		
324000	61/649054	Wide angle imaging directional backlights	United States of America	18 May 2012		
324001	13/839552	Wide angle imaging directional backlights	United States of America	15 Mar 2013		
324002	PCT/US13/41235	Wide angle imaging directional backlights	Patent Cooperation Treaty	15 May 2013		
325000	61/649116	Polarization recovery in imaging directional backlights	United States of America	18 May 2012		
325001	13/837466	Polarization recovery in a directional display device	United States of America	15 Mar 2013	12 Jan 2016	9235057
325002	PCT/US13/41237	Polarization recovery in a directional display device	Patent Cooperation Treaty	15 May 2013		
325101	14/993042	Polarization recovery in imaging directional backlights	United States of America	11 Jan 2016		
326000	61/649124	Optical inline directional backlight apparatus and method thereof	United States of America	18 May 2012		
326001	13/897261	Optical inline directional backlight apparatus and method thereof	United States of America	17 May 2013		

326002	PCT/US13/41697	Optical inline directional backlight apparatus and method thereof	Patent Cooperation Treaty	17 May 2013		
327000	61/649133	Method of manufacturing directional backlight apparatus and directional structured optical film	United States of America	18 May 2012		
327001	13/897163	Method of manufacturing directional backlight apparatus and directional structured optical film	United States of America	17 May 2013		
328000	61/649136	Diffraction reflectors for imaging directional backlights	United States of America	18 May 2012		
329000	61/649141	Planar display apparatus	United States of America	18 May 2012		
330000	61/649149	Spatially multiplexed imaging directional backlight displays	United States of America	18 May 2012		
330001	13/897150	Spatially multiplexed imaging directional backlight displays	United States of America	17 May 2013		
335000	61/674735	Observer tracking autostereoscopic display	United States of America	23 Jul 2012		
335001	13/939053	Observer tracking autostereoscopic display	United States of America	10 Jul 2013	23 Dec 2014	8917441
335002	PCT/US13/49969	Observer tracking autostereoscopic display	Patent Cooperation Treaty	10 Jul 2013		
339000	61/709038	Temporally multiplexed display with landscape and portrait operation modes	United States of America	02 Oct 2012		

339001	14/044767	Temporally multiplexed display with landscape and portrait operation modes	United States of America	02 Oct 2013	07 Apr 2015	9001423
339002	PCT/US13/63133	Temporally multiplexed display with landscape and portrait operation modes	Patent Cooperation Treaty	02 Oct 2013		
339101	14/262148	Temporally multiplexed display with landscape and portrait operation modes	United States of America	25 Apr 2014	29 Dec 2015	9225971
340000	61/709068	Stepped waveguide autostereoscopic display apparatus comprising a reflective directional element	United States of America	02 Oct 2012		
340001	14/044607	Stepped waveguide autostereoscopic display apparatus with a reflective directional element	United States of America	02 Oct 2013	16 Aug 2016	9420266
340002	PCT/US13/63125	Stepped waveguide autostereoscopic display apparatus with a reflective directional element	Patent Cooperation Treaty	02 Oct 2013		
348000	61/791928	Illumination apparatus and control system for a directional display device	United States of America	15 Mar 2013		
348001	13/896870	Controlling light sources of a directional backlight	United States of America	17 May 2013		
348002	PCT/US13/41548	Controlling light sources of a directional backlight	Patent Cooperation Treaty	17 May 2013		
351000	61/745334	Superlens component for time multiplexed autostereoscopic display	United States of America	21 Dec 2012		
351001	14/137569	Superlens component for directional display	United States of America	20 Dec 2013	06 Sep 2016	9436015

351002	PCT/US13/77288	Superlens component for time multiplexed autostereoscopic display	Patent Cooperation Treaty	20 Dec 2013		
353000	61/835923	Depth corrected autostereoscopic video conferencing apparatus and method thereof	United States of America	17 Jun 2013		
353001	14/306690	Depth corrected autostereoscopic video conferencing apparatus and method thereof	United States of America	17 Jun 2014	02 Aug 2016	9407868
353002	PCT/US14/42721	Depth corrected autostereoscopic video conferencing apparatus and method thereof	Patent Cooperation Treaty	17 Jun 2014		
353101	15/199106	Depth corrected autostereoscopic video conferencing apparatus and method thereof	United States of America	30 Jun 2016		
354000	61/890437	Light input for directional backlight	United States of America	14 Oct 2013		
354001	14/513120	Light input for directional backlight	United States of America	13 Oct 2014		
354002	PCT/US14/60312	Light input for directional backlight	Patent Cooperation Treaty	13 Oct 2014		
355000	61/768371	Directional backlight	United States of America	22 Feb 2013		
355001	14/186862	Directional backlight	United States of America	21 Feb 2014		
355002	PCT/US14/17779	Directional backlight	Patent Cooperation Treaty	21 Feb 2014		

359000	61/860364	Electronic display numerical aberration correction	United States of America	31 Jul 2013		
359001	14/448098	Electronic display numerical aberration correction	United States of America	31 Jul 2014		
362001	13/897191	Control system for a directional light source (Centre LED)	United States of America	17 May 2013	30 Aug 2016	9429764
362002	PCT/US13/41683	Control system for a directional light source	Patent Cooperation Treaty	17 May 2013		
366000	61/890469	Control of directional display	United States of America	14 Oct 2013		
366002	PCT/US14/60368	Control of directional display	Patent Cooperation Treaty	14 Oct 2014		
368000	61/904880	Directional backlights with light emitting element packages	United States of America	15 Nov 2013		
368001	14/538411	Directional backlights with light emitting element packages	United States of America	11 Nov 2014		
368002	PCT/US14/65020	Directional backlights with light emitting element packages	Patent Cooperation Treaty	11 Nov 2014		
371000	61/968935	Directional backlight	United States of America	21 Mar 2014		
371001	14/663251	Directional backlight	United States of America	19 Mar 2015		

371002	PCT/US15/21583	Directional backlight	Patent Cooperation Treaty	19 Mar 2015
372000	62/061467	Directional backlight	United States of America	08 Oct 2014
373000	62/017337	Directional display arranged to provide a privacy mode that compensates for off-axis residual images	United States of America	26 Jun 2014
374000	62/096819	Stereoscopic video calling apparatus comprising face disparity correction and hair-background segmentation	United States of America	24 Dec 2014
374001	14/757893	Adjustment of perceived roundness in stereoscopic image of a head	United States of America	24 Dec 2015
374002	PCT/US15/00327	Adjustment of perceived roundness in stereoscopic image of a head	Patent Cooperation Treaty	24 Dec 2015
379000	62/146648	Uniformity correction apparatus for directional light guide plate	United States of America	13 Apr 2015
384000	62/167203	Side illuminated directional backlight using interlaced Fresnel mirror	United States of America	27 May 2015
384001	15/165960	Side illuminated directional backlight using interlaced Fresnel mirror	United States of America	26 May 2016
386000	62/246584	Intelligent privacy system, apparatus, and method thereof	United States of America	26 Oct 2015
386000	62/246584	Intelligent privacy system, apparatus, and method thereof	United States of America	26 Oct 2015

388000	62/274897	Gaze correction of multi-view images	United States of America	05 Jan 2016		
396000	62/339081	Wide angle imaging directional backlights	United States of America	19 May 2016		
397000	62/340382	Rear reflector for directional display with stray light reducing structure	United States of America	23 May 2016		
289001FT	13/470291	Efficient polarized directional backlight	United States of America	12 May 2012	18 Feb 2014	8651726
324000A	61/727421	Wide angle imaging directional backlights	United States of America	16 Nov 2012		
335000A	61/709051	Observer tracking autostereoscopic display	United States of America	02 Oct 2012		
339000A	61/745160	Temporally multiplexed display with landscape and portrait operation modes	United States of America	21 Dec 2012		
355000A	61/791112	Directional backlight	United States of America	15 Mar 2013		
355000B	61/890456	Energy efficient directional backlight	United States of America	14 Oct 2013		
368000A	61/934086	Directional backlights with light emitting element packages	United States of America	31 Jan 2014		
379000A	62/154932	Uniformity correction apparatus for directional light guide plate	United States of America	30 Apr 2015		

379000B	62/167185	Uniformity correction apparatus for directional light guide plate	United States of America	27 May 2015
386000A	62/261151	Intelligent privacy system, apparatus, and method thereof	United States of America	30 Nov 2015