

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3795959

| | |
|---|--|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | RELEASE FROM PATENT SECURITY AGREEMENTS AT REEL/FRAME NO. 30282/0770 |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| CITY NATIONAL BANK | 03/22/2016 |
| RECEIVING PARTY DATA | |
| Name: | REALD INC. |
| Street Address: | 100 NORTH CRESCENT DRIVE, SUITE 200 |
| City: | BEVERLY HILLS |
| State/Country: | CALIFORNIA |
| Postal Code: | 90210 |
| PROPERTY NUMBERS Total: 8 | |
| Property Type | Number |
| Application Number: | 61791928 |
| Application Number: | 13836443 |
| Application Number: | 13837466 |
| Application Number: | 13838936 |
| Application Number: | 13839552 |
| Application Number: | 13845876 |
| Application Number: | 13857810 |
| PCT Number: | US2013035485 |
| CORRESPONDENCE DATA | |
| Fax Number: | (213)891-8763 |
| <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> | |
| Email: | ipdocket@lw.com |
| Correspondent Name: | LATHAM & WATKINS LLP |
| Address Line 1: | 355 SOUTH GRAND AVENUE |
| Address Line 4: | LOS ANGELES, CALIFORNIA 90071-1560 |
| ATTORNEY DOCKET NUMBER: | 056994-0001 |
| NAME OF SUBMITTER: | RHONDA DELEON |
| SIGNATURE: | /Rhonda DeLeon/ |

| | |
|--------------|------------|
| DATE SIGNED: | 03/22/2016 |
|--------------|------------|

Total Attachments: 33

source=Release from Patent Security Agreements (RealD) (2)#page1.tif
source=Release from Patent Security Agreements (RealD) (2)#page2.tif
source=Release from Patent Security Agreements (RealD) (2)#page3.tif
source=Release from Patent Security Agreements (RealD) (2)#page4.tif
source=Release from Patent Security Agreements (RealD) (2)#page5.tif
source=Release from Patent Security Agreements (RealD) (2)#page6.tif
source=Release from Patent Security Agreements (RealD) (2)#page7.tif
source=Release from Patent Security Agreements (RealD) (2)#page8.tif
source=Release from Patent Security Agreements (RealD) (2)#page9.tif
source=Release from Patent Security Agreements (RealD) (2)#page10.tif
source=Release from Patent Security Agreements (RealD) (2)#page11.tif
source=Release from Patent Security Agreements (RealD) (2)#page12.tif
source=Release from Patent Security Agreements (RealD) (2)#page13.tif
source=Release from Patent Security Agreements (RealD) (2)#page14.tif
source=Release from Patent Security Agreements (RealD) (2)#page15.tif
source=Release from Patent Security Agreements (RealD) (2)#page16.tif
source=Release from Patent Security Agreements (RealD) (2)#page17.tif
source=Release from Patent Security Agreements (RealD) (2)#page18.tif
source=Release from Patent Security Agreements (RealD) (2)#page19.tif
source=Release from Patent Security Agreements (RealD) (2)#page20.tif
source=Release from Patent Security Agreements (RealD) (2)#page21.tif
source=Release from Patent Security Agreements (RealD) (2)#page22.tif
source=Release from Patent Security Agreements (RealD) (2)#page23.tif
source=Release from Patent Security Agreements (RealD) (2)#page24.tif
source=Release from Patent Security Agreements (RealD) (2)#page25.tif
source=Release from Patent Security Agreements (RealD) (2)#page26.tif
source=Release from Patent Security Agreements (RealD) (2)#page27.tif
source=Release from Patent Security Agreements (RealD) (2)#page28.tif
source=Release from Patent Security Agreements (RealD) (2)#page29.tif
source=Release from Patent Security Agreements (RealD) (2)#page30.tif
source=Release from Patent Security Agreements (RealD) (2)#page31.tif
source=Release from Patent Security Agreements (RealD) (2)#page32.tif
source=Release from Patent Security Agreements (RealD) (2)#page33.tif

RELEASE FROM PATENT SECURITY AGREEMENTS

March 22, 2016

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, CITY NATIONAL BANK, in its capacity as agent for and on behalf of itself and certain other financial institutions (in such capacity, "**Secured Party**"), does hereby terminate and release, without any recourse, representation or warranty, any and all interest it may have in and to certain patents listed on Schedule A attached hereto arising from (i) that certain Patent Security Agreement by and between REALD INC. and Secured Party entered into as of April 19, 2012, which was recorded in the United States Patent and Trademark Office on May 2, 2012 at Reel 028146, Frame 0006, (ii) that certain Patent Security Agreement by and between REALD INC. and Secured Party entered into as of December 31, 2012, which was recorded in the United States Patent and Trademark Office on January 29, 2013 at Reel 029717, Frame 0085, (iii) that certain Patent Security Agreement by and between REALD INC. and Secured Party entered into as of April 15, 2013, which was recorded in the United States Patent and Trademark Office on April 23, 2013 at Reel 030282, Frames 0700 and 0770, (iv) that certain Patent Security Agreement by and between REALD INC. and Secured Party entered into as of January 14, 2014, which was recorded in the United States Patent and Trademark Office on January 27, 2014 at Reel 032125, Frame 0890, and (v) that certain Patent Security Agreement by and between REALD INC. and Secured Party entered into as of June 26, 2014, which was recorded in the United States Patent and Trademark Office on July 18, 2014 at Reel 033358, Frame 0906.

[Signature Page Follows]

IN WITNESS WHEREOF, the Secured Party has caused this Release from Patent Security Agreements to be duly executed as of the date first set forth above.

SECURED PARTY

CITY NATIONAL BANK

By: Garen Papazyan
Name: Garen Papazyan
Title: Senior Vice President

SCHEDULE A

Pending Patent Applications

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Status | Expiration Date |
|---------------|---|----------------|--------------------|-----------|------------|---------------|---------|-----------------|
| United States | Autostereoscopic display with planar pass-through | 11/400958 | 07 April, 2006 | | | RealD Inc. | Pending | |
| United States | Autostereoscopic display with increased sharpness for non-primary viewing zones | 11/473660 | 22 June, 2006 | | | RealD Inc. | Pending | |
| United States | Algorithmic interaxial reduction | 11/509960 | 24 August, 2006 | | | RealD Inc. | Pending | |
| United States | Shuttering eyewear for use with stereoscopic liquid crystal display | 11/519357 | 12 September, 2006 | | | RealD Inc. | Pending | |
| United States | Multi-functional active matrix liquid crystal displays | 11/673556 | 09 February, 2007 | | | RealD Inc. | Pending | |
| United States | Business system for three-dimensional snapshots | 11/717355 | 13 March, 2007 | | | RealD Inc. | Pending | |
| United States | Projection of stereoscopic images using linearly polarized light | 11/786177 | 11 April, 2007 | | | RealD Inc. | Pending | |
| United States | Stereoplexing for video and film applications | 11/811047 | 07 June, 2007 | | | RealD Inc. | Pending | |
| United States | Stereoplexing for film and video applications | 11/811234 | 07 June, 2007 | | | RealD Inc. | Pending | |
| United States | LED illuminator filters | 11/874742 | 18 October, 2007 | | | RealD Inc. | Pending | |

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Status | Expiration Date |
|---------------|---|----------------|--------------------|-----------|------------|---------------------------------------|---------|-----------------|
| United States | Illumination systems for visual displays | 11/944583 | 23 November, 2007 | | | RealD Inc. | Pending | |
| United States | Shutter glass drive scheme for sequential-color displays | 11/948772 | 30 November, 2007 | | | Real D/Texas Instruments Incorporated | Pending | |
| United States | Enhanced theater screen | 12/079460 | 26 March, 2008 | | | RealD Inc. | Pending | |
| United States | Business system for two and three-dimensional snapshots | 12/079484 | 26 March, 2008 | | | RealD Inc. | Pending | |
| United States | Polarization conversion system and method for stereoscopic projection | 12/118640 | 09 May, 2008 | | | RealD Inc. | Pending | |
| United States | Display device | 12/156683 | 04 June, 2008 | | | RealD Inc. | Pending | |
| United States | Head-mounted single panel stereoscopic display | 12/180488 | 25 July, 2008 | | | RealD Inc. | Pending | |
| United States | System and eyewear for viewing stereoscopic imagery | 12/206115 | 08 September, 2008 | | | RealD Inc. | Pending | |
| United States | Demultiplexing for stereoplexed film and video applications | 12/286449 | 29 September, 2008 | | | RealD Inc. | Pending | |
| United States | Curved optical filters | 12/249876 | 10 October, 2008 | | | RealD Inc. | Pending | |
| United States | Intra-pixel illumination system | 12/341795 | 22 December, 2008 | | | RealD Inc. | Pending | |

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Status | Expiration Date |
|---------------|---|----------------|-------------------|-----------|------------|---------------|---------|-----------------|
| United States | Blur enhancement of stereoscopic images | 12/479664 | 05 June, 2009 | | | RealD Inc. | Pending | |
| United States | Method and apparatus to encode and decode stereoscopic video data | 12/534126 | 01 August, 2009 | | | RealD Inc. | Pending | |
| United States | Enhanced ghost compensation for stereoscopic imagery | 12/541892 | 14 August, 2009 | | | RealD Inc. | Pending | |
| United States | Autostereoscopic display system with efficient pixel layout | 12/541895 | 14 August, 2009 | | | RealD Inc. | Pending | |
| United States | Stereoscopic depth mapping | 12/541902 | 14 August, 2009 | | | RealD Inc. | Pending | |
| United States | Optimal depth mapping | 12/573852 | 05 October, 2009 | | | RealD Inc. | Pending | |
| United States | Lenticular display systems with offset color filter array | 12/579178 | 14 October, 2009 | | | RealD Inc. | Pending | |
| United States | Stereoscopic image format with depth information | 12/606121 | 26 October, 2009 | | | RealD Inc. | Pending | |
| United States | Head-tracking enhanced stereo glasses | 12/606825 | 27 October, 2009 | | | RealD Inc. | Pending | |
| United States | Stereoscopic projection systems for employing spatial multiplexing at an intermediate image plane | 12/629017 | 01 December, 2009 | | | RealD Inc. | Pending | |
| United States | Stereoscopic systems for anaglyph images | 12/709453 | 19 February, 2010 | | | RealD Inc. | Pending | |

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Status | Expiration Date |
|---------------|---|----------------|------------------|-----------|------------|---------------|---------|-----------------|
| United States | Point reposition depth mapping | 12/729061 | 22 March, 2010 | | | RealD Inc. | Pending | |
| United States | Encoding, decoding, and distributing enhanced resolution stereoscopic video | 12/759554 | 13 April, 2010 | | | RealD Inc. | Pending | |
| United States | Polarization modulator wheel | 12/785351 | 21 May, 2010 | | | RealD Inc. | Pending | |
| United States | Shutter-glass eyewear control | 12/796494 | 08 June, 2010 | | | RealD Inc. | Pending | |
| United States | Stereoscopic Projection System Employing Spatial Multiplexing At An Intermediate Image Plane | 12/826332 | 29 June, 2010 | | | RealD Inc. | Pending | |
| United States | Enhanced ZScreen modulator techniques | 12/839173 | 19 July, 2010 | | | RealD Inc. | Pending | |
| United States | Stereoscopic flat panel display with synchronized backlight, polarization control panel, and liquid crystal display | 12/853283 | 09 August, 2010 | | | RealD Inc. | Pending | |
| United States | Stereoscopic flat panel display with updated blanking intervals | 12/853274 | 09 August, 2010 | | | RealD Inc. | Pending | |
| United States | Stereoscopic flat panel display with scrolling backlight and synchronized liquid crystal display update | 12/853279 | 09 August, 2010 | | | RealD Inc. | Pending | |
| United States | Stereoscopic flat panel display with a continuously lit backlight | 12/853265 | 09 August, 2010 | | | RealD Inc. | Pending | |
| United States | Improved segmented polarization control panel | 12/853273 | 09 August, 2010 | | | RealD Inc. | Pending | |

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Status | Expiration Date |
|---------------|---|----------------|--------------------|-----------|------------|---|---------|-----------------|
| United States | Ghost-compensation for improved stereoscopic images | 12/886335 | 22 September, 2010 | | | RealD Inc. | Pending | |
| United States | Stereoscopic format converter | 12/888843 | 23 September, 2010 | | | RealD Inc. | Pending | |
| United States | Polarization preserving projection screen with engineered particle and method for making same | 12/976986 | 22 December, 2010 | | | RealD Inc. & Wavefront Technology, Inc. | Pending | |
| United States | Polarization preserving projection screen with engineered pigment and method for making same | 12/977026 | 22 December, 2010 | | | RealD Inc. & Wavefront Technology, Inc. | Pending | |
| United States | Crosstalk suppression in time sequential liquid crystal stereoscopic display systems | 12/985250 | 05 January, 2011 | | | RealD Inc. | Pending | |
| United States | Wide field-of-view stereoscopic projection system | 13/010755 | 20 January, 2011 | | | RealD Inc. | Pending | |
| United States | Compound curved stereoscopic eyewear | 13/019275 | 01 February, 2011 | | | RealD Inc. | Pending | |
| United States | Bendable liquid crystal polarization switch for direct view stereoscopic display | 13/032466 | 22 February, 2011 | | | RealD Inc. | Pending | |
| United States | Waveplate compensation in projection polarization conversion system | 13/034643 | 24 February, 2011 | | | RealD Inc. | Pending | |
| United States | Method and apparatus for managing optical non uniformities in seaming processes | 61/450637 | 09 March, 2011 | | | RealD Inc. | Pending | 3/9/2012 |
| United States | Polarization conversion systems for stereoscopic projection | 13/047763 | 14 March, 2011 | | | RealD Inc. | Pending | |

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Status | Expiration Date |
|---------------|---|----------------|------------------|-----------|------------|---------------|---------|-----------------|
| United States | Electrode-gap visibility reduction in liquid crystal devices | 61/453070 | 15 March, 2011 | | | RealD Inc. | Pending | 3/15/2012 |
| United States | IR protocol for 3D active eyewear | 61/469689 | 30 March, 2011 | | | RealD Inc. | Pending | 3/30/2012 |
| United States | Shutter-glass eyewear communications receiver | 13/102851 | 06 May, 2011 | | | RealD Inc. | Pending | |
| United States | Charge recovery scheme | 13/102948 | 06 May, 2011 | | | RealD Inc. | Pending | |
| United States | Polarization compensated stereoscopic projection | 61/485497 | 12 May, 2011 | | | RealD Inc. | Pending | 5/12/2012 |
| United States | Efficient polarized directional backlight | 61/486021 | 13 May, 2011 | | | RealD Inc. | Pending | 5/13/2012 |
| United States | Drive scheme for stereoscopic display polarization modulator and apparatus for same | 61/486707 | 16 May, 2011 | | | RealD Inc. | Pending | 5/16/2012 |
| United States | EYEGLASSES | 29/393277 | 01 June, 2011 | | | RealD Inc. | Pending | |
| United States | Stereoscopic liquid crystal display systems | 13/156318 | 08 June, 2011 | | | RealD Inc. | Pending | |
| United States | Stereoscopic liquid crystal display systems | 13/156321 | 08 June, 2011 | | | RealD Inc. | Pending | |
| United States | Segmented directional backlight | 61/496319 | 13 June, 2011 | | | RealD Inc. | Pending | 6/13/2012 |

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Status | Expiration Date |
|---------------|---|----------------|------------------|-----------|------------|---------------|---------|-----------------|
| United States | In-plane switched active retarder for stereoscopic display systems | 61/496629 | 14 June, 2011 | | | RealD Inc. | Pending | 6/14/2012 |
| United States | Anamorphic stereoscopic lens | 61/497892 | 16 June, 2011 | | | RealD Inc. | Pending | 6/16/2012 |
| United States | Boundary artifact suppression in segmented liquid crystal modulators | 61/502807 | 29 June, 2011 | | | RealD Inc. | Pending | 6/29/2012 |
| United States | Speckle reduction using screen vibration techniques and apparatus | 61/505212 | 07 July, 2011 | | | RealD Inc. | Pending | 7/7/2012 |
| United States | Speckle reduction using lenslet integrator | 61/505214 | 07 July, 2011 | | | RealD Inc. | Pending | 7/7/2012 |
| United States | Monitoring and control of laser module for projectors | 61/505217 | 07 July, 2011 | | | RealD Inc. | Pending | 7/7/2012 |
| United States | High power frequency diverse lasers for projection display | 61/505220 | 07 July, 2011 | | | RealD Inc. | Pending | 7/7/2012 |
| United States | Method and apparatus for speckle reduction | 61/505211 | 07 July, 2011 | | | RealD Inc. | Pending | 7/7/2012 |
| United States | De-speckling fiber | 61/505455 | 07 July, 2011 | | | RealD Inc. | Pending | 7/7/2012 |
| United States | Field-Of-View Compensated Polarization Switch for Short-Throw 3D Projection | 13/182381 | 13 July, 2011 | | | RealD Inc. | Pending | |
| United States | Method and apparatus for joining screen material for minimal optical distortion | 61/507574 | 13 July, 2011 | | | RealD Inc. | Pending | 7/13/2012 |

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Status | Expiration Date |
|---------------|--|----------------|--------------------|-----------|------------|---------------|---------|-----------------|
| United States | Compact polarization converting stereoscopic projection | 61/507959 | 14 July, 2011 | | | RealD Inc. | Pending | 7/14/2012 |
| United States | Compact stereoscopic optical system | 61/508420 | 15 July, 2011 | | | RealD Inc. | Pending | 7/15/2012 |
| United States | Wide throw ratio polarization converting stereoscopic projection system | 61/508428 | 15 July, 2011 | | | RealD Inc. | Pending | 7/15/2012 |
| United States | Auto-stereoscopic display with a passive cycloidal diffractive waveplate | 61/526756 | 24 August, 2011 | | | RealD Inc. | Pending | 8/24/2012 |
| United States | Segmented polarization modulators for stereoscopic projection | 13/247678 | 28 September, 2011 | | | RealD Inc. | Pending | |
| United States | Cleanable coating for projection screen | 13/250638 | 30 September, 2011 | | | RealD Inc. | Pending | |
| United States | Stereoscopic display system with liquid-crystal switchable retarder | 61/543773 | 05 October, 2011 | | | RealD Inc. | Pending | 10/5/2012 |
| United States | Chemically-welded optical devices | 61/543777 | 05 October, 2011 | | | RealD Inc. | Pending | 10/5/2012 |
| United States | Seamless electronic display tiling | 61/548717 | 18 October, 2011 | | | RealD Inc. | Pending | 10/18/2012 |
| United States | Split segmented liquid crystal modulator | 13/279276 | 22 October, 2011 | | | RealD Inc. | Pending | |
| United States | Polarization preserving front projection screen microstructures | 13/290978 | 07 November, 2011 | | | RealD Inc. | Pending | |

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Status | Expiration Date |
|---------------|--|----------------|-------------------|-----------|------------|---------------|---------|-----------------|
| United States | Imaging path speckle mitigation | 61/557223 | 08 November, 2011 | | | RealD Inc. | Pending | 11/8/2012 |
| United States | Electronic display apparatus and method thereof | 61/559720 | 14 November, 2011 | | | RealD Inc. | Pending | 11/14/2012 |
| United States | Directional flat illuminators | 13/300293 | 18 November, 2011 | | | RealD Inc. | Pending | |
| United States | Stereoscopic Eyewear | 13/309549 | 01 December, 2011 | | | RealD Inc. | Pending | |
| United States | ZScreen modulator with wire grid polarizer for stereoscopic projection | 13/326306 | 14 December, 2011 | | | RealD Inc. | Pending | |
| United States | Compound quarter-wave retarder for optical disc pickup heads | 13/337240 | 26 December, 2011 | | | RealD Inc. | Pending | |
| United States | Beam scanned display apparatus and method thereof | 61/583487 | 05 January, 2012 | | | RealD Inc. | Pending | 1/5/2013 |
| United States | Ultrafast twisted nematic liquid crystal display | 13/359462 | 26 January, 2012 | | | RealD Inc. | Pending | |
| United States | Laser architectures | 61/598175 | 13 February, 2012 | | | RealD Inc. | Pending | 2/13/2013 |
| United States | Stereoscopic eyewear with stray light management | 13/405199 | 24 February, 2012 | | | RealD Inc. | Pending | |
| United States | Light efficient acoustically transparent front projection screens | 61/607331 | 06 March, 2012 | | | RealD Inc. | Pending | 3/6/2013 |

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Status | Expiration Date |
|---------------|--|----------------|------------------|-----------|------------|---------------|---------|-----------------|
| United States | Method and apparatus for managing optical non-uniformities in screen seaming processes | 13/416693 | 09 March, 2012 | | | RealD Inc. | Pending | |

Patents

| Country | Title | Application No | Application Date | National Filing Date | Patent No | Grant Date | Current Owner | Status | Expiration Date |
|----------------------------|--|-----------------|------------------|----------------------|-----------|------------|---------------|--------|-----------------|
| United States | Autostereoscopic display with planar pass-through | 13/633081 | 1-Oct-12 | | | | RealD Inc. | Filed | |
| United States | Enhanced ZScreen modulator techniques | 13/493847 | 11-Jun-12 | | | | RealD Inc. | Filed | |
| European Patent Convention | Ghost-compensation for improved stereoscopic projection (REAL0157) | 12172038.7 | 14-Jun-12 | 14-Jun-12 | | | RealD Inc. | Filed | |
| United States | Stereoscopic format converter | 13/617003 | 14-Sep-12 | | | | RealD Inc. | Filed | |
| European Patent Convention | Stereoscopic eyewear | 12172253.2 | 15-Jun-12 | | | | RealD Inc. | Filed | |
| United States | Multi-functional active matrix liquid crystal displays | 13/561827 | 30-Jul-12 | | | | RealD Inc. | Filed | |
| United States | Polarization conversion systems for stereoscopic projection | 13/550182 | 16-Jul-12 | | | | RealD Inc. | Filed | |
| United States | Stereoscopic depth mapping | 13/663364 | 29-Oct-12 | | | | RealD Inc. | Filed | |
| European Patent Convention | Stereoscopic flat panel display with updated blanking intervals | 10807299.2 | 9-Aug-10 | 7-Mar-12 | | | RealD Inc. | Filed | |
| Republic of Korea | Stereoscopic flat panel display | 10-2012-7006108 | 9-Aug-10 | 7-Mar-12 | | | RealD Inc. | Filed | |

PATENT**REEL: 038216 FRAME: 0854**

| | | | | | | | | | |
|----------------------------|--|-------------------|-----------|-----------|--|--|------------|-------|--|
| | with updated blanking intervals | | | | | | | | |
| China P.R. | Stereoscopic flat panel display with updated blanking intervals | 2010800436 93.2 | 9-Aug-10 | 29-Mar-12 | | | RealD Inc. | Filed | |
| European Patent Convention | Stereoscopic flat panel display with a continuously lit backlight | 10807300.8 | 9-Aug-10 | 7-Mar-12 | | | RealD Inc. | Filed | |
| Republic of Korea | Stereoscopic flat panel display with a continuously lit backlight | 10-2012-7006114 | 9-Aug-10 | 7-Mar-12 | | | RealD Inc. | Filed | |
| China P.R. | Stereoscopic flat panel display with a continuously lit backlight | 2010800436 90.9 | 9-Aug-10 | 29-Mar-12 | | | RealD Inc. | Filed | |
| European Patent Convention | Polarization preserving projection screen with engineered pigment and method for making same | 10843601.5 | 22-Dec-10 | 22-Jun-12 | | | RealD Inc. | Filed | |
| Brazil | Polarization preserving projection screen with engineered pigment and method for making same | BR11201201 5479-6 | 22-Dec-10 | 25-Jun-12 | | | RealD Inc. | Filed | |
| India | Polarization preserving projection screen with engineered pigment and | 5897/DELNP /2012 | 22-Dec-10 | 3-Jul-12 | | | RealD Inc. | Filed | |

PATENT

REEL: 038216 FRAME: 0855

| | | | | | | | | | |
|----------------------------|---|-----------------|-----------|-----------|--|--|------------|-------|--|
| | method for making same | | | | | | | | |
| China P.R. | Polarization preserving projection screen with engineered pigment and method for making same | PCT/US10/6 1944 | 22-Dec-10 | 21-Aug-12 | | | RealD Inc. | Filed | |
| Canada | Polarization preserving projection screen with engineered pigment and method for making same | PCT/US10/6 1944 | 22-Dec-10 | 19-Jun-12 | | | RealD Inc. | Filed | |
| Eurasian Patent Convention | Polarization preserving projection screen with engineered pigment and method for making same | 201200941 | 22-Dec-10 | 23-Jul-12 | | | RealD Inc. | Filed | |
| United States | Polarization preserving projection screen with engineered pigment and method for making same | 13/457707 | 27-Apr-12 | | | | RealD Inc. | Filed | |
| European Patent Convention | Polarization preserving projection screen with engineered particle and method for making same | 10843600.7 | 22-Dec-10 | 26-Jun-12 | | | RealD Inc. | Filed | |
| China P.R. | Polarization preserving projection screen | PCT/US10/6 1939 | 22-Dec-10 | 21-Aug-12 | | | RealD Inc. | Filed | |

PATENT

REEL: 038216 FRAME: 0856

| | | | | | | | | | |
|----------------------------|---|-----------------|-----------|-----------|--|--|------------|-------|--|
| | with engineered particle and method for making same | | | | | | | | |
| United States | Polarization preserving projection screen with engineered particle and method for making same | 13/488081 | 4-Jun-12 | | | | RealD Inc. | Filed | |
| | | | | | | | | | |
| European Patent Convention | Crosstalk suppression in time sequential liquid crystal stereoscopic display systems | 11732109.1 | 5-Jan-11 | 4-Jul-12 | | | RealD Inc. | Filed | |
| | | | | | | | | | |
| Japan | Crosstalk suppression in time sequential liquid crystal stereoscopic display systems | 2012-548107 | 5-Jan-11 | 4-Jul-12 | | | RealD Inc. | Filed | |
| | | | | | | | | | |
| Republic of Korea | Crosstalk suppression in time sequential liquid crystal stereoscopic display systems | 10-2012-7018707 | 5-Jan-11 | 17-Jul-12 | | | RealD Inc. | Filed | |
| | | | | | | | | | |
| China P. R. | Crosstalk suppression in time sequential liquid crystal stereoscopic display systems | PCT/US11/20277 | 5-Jan-11 | 4-Sep-12 | | | RealD Inc. | Filed | |
| | | | | | | | | | |
| European Patent Convention | Wide field-of-view stereoscopic projection system | 11735201.3 | 20-Jan-11 | 24-Jul-12 | | | RealD Inc. | Filed | |
| | | | | | | | | | |
| China P. R. | Wide field-of-view stereoscopic projection system | PCT/US11/2 | 20-Jan-11 | 20-Sep-12 | | | RealD Inc. | Filed | |

PATENT

REEL: 038216 FRAME: 0857

| | | | | | | | | |
|----------------------------------|--|---------------------|-----------|-----------|--|--|------------|-------|
| | view stereoscopic projection system | 1944 | | | | | | |
| Republic of Korea | Wide field-of- view stereoscopic projection system | 10-2012- 7021037 | 20-Jan-11 | 10-Aug-12 | | | RealD Inc. | Filed |
| European Patent Convention | Compound curved stereoscopic eyewear | 11737874.5 | 1-Feb-11 | 7-Aug-12 | | | RealD Inc. | Filed |
| Japan | Compound curved stereoscopic eyewear | PCT/US11/2 3412 | 1-Feb-11 | 31-Jul-12 | | | RealD Inc. | Filed |
| Republic of Korea | Compound curved stereoscopic eyewear | 10-2012- 7022697 | 1-Feb-11 | 30-Aug-12 | | | RealD Inc. | Filed |
| China P.R. | Compound curved stereoscopic eyewear | PCT/US11/2 3412 | 1-Feb-11 | 28-Sep-12 | | | RealD Inc. | Filed |
| European Patent Convention | Bendable liquid crystal polarization switch for direct view stereoscopic display | 11745443.9 | 22-Feb-11 | 23-Aug-12 | | | RealD Inc. | Filed |
| China P.R. | Bendable liquid crystal polarization switch for direct view stereoscopic display | PCT/US11/2 5742 | 22-Feb-11 | 22-Oct-12 | | | RealD Inc. | Filed |
| Republic of Korea | Bendable liquid crystal polarization | 10-2012- 7024600 | 22-Feb-11 | 20-Sep-12 | | | RealD Inc. | Filed |

PATENT

REEL: 038216 FRAME: 0858

| | | | | | | | | | |
|---------------------------|---|----------------|-----------|--|--|--|------------|-------|--|
| | switch for direct view stereoscopic display | | | | | | | | |
| United States | Directional flat illuminators | 13/565643 | 2-Aug-12 | | | | RealD Inc. | Filed | |
| United States | Method and apparatus for managing optical non uniformities in seaming processes | 13/416693 | 9-Mar-12 | | | | RealD Inc. | Filed | |
| United States | Liquid crystal devices having reduced electrode-gap visibility | 13/421856 | 15-Mar-12 | | | | RealD Inc. | Filed | |
| Patent Cooperation Treaty | Liquid crystal devices having reduced electrode-gap visibility | PCT/US12/29313 | 15-Mar-12 | | | | RealD Inc. | Filed | |
| United States | IR protocol for 3D active eyewear | 13/435227 | 30-Mar-12 | | | | RealD Inc. | Filed | |
| Patent Cooperation Treaty | IR protocol for 3D active eyewear | PCT/US12/31604 | 30-Mar-12 | | | | RealD Inc. | Filed | |
| United States | Polarization compensated stereoscopic systems | 13/471224 | 14-May-12 | | | | RealD Inc. | Filed | |
| Patent Cooperation Treaty | Polarization compensated stereoscopic systems | PCT/US12/37819 | 14-May-12 | | | | RealD Inc. | Filed | |
| United States | Drive scheme for stereoscopic display polarization modulator and | 13/473447 | 16-May-12 | | | | RealD Inc. | Filed | |

PATENT

REEL: 038216 FRAME: 0859

| | | | | | | | | | |
|---------------------------|---|-----------------|-----------|--|--|--|--|------------|-------|
| | apparatus for same | | | | | | | | |
| Patent Cooperation Treaty | Drive scheme for stereoscopic display polarization modulator and apparatus for same | PCT/US12/3 8191 | 16-May-12 | | | | | RealD Inc. | Filed |
| United States | Efficient polarized directional backlight | 13/470291 | 12-May-12 | | | | | RealD Inc. | Filed |
| Patent Cooperation Treaty | Efficient polarized directional backlight | PCT/US12/3 7677 | 12-May-12 | | | | | RealD Inc. | Filed |
| United States | Segmented directional backlight and related methods of backlight illumination | 13/495898 | 13-Jun-12 | | | | | RealD Inc. | Filed |
| Patent Cooperation Treaty | Segmented directional backlight and related methods of backlight illumination | PCT/US12/4 2279 | 13-Jun-12 | | | | | RealD Inc. | Filed |
| United States | In-plane switched active retarder for stereoscopic display systems | 13/523815 | 14-Jun-12 | | | | | RealD Inc. | Filed |
| Patent Cooperation Treaty | In-plane switched active retarder for stereoscopic display systems | PCT/US12/4 2538 | 14-Jun-12 | | | | | RealD Inc. | Filed |
| United States | Anamorphic stereoscopic optical apparatus | 13/525609 | 18-Jun-12 | | | | | RealD Inc. | Filed |

PATENT

REEL: 038216 FRAME: 0860

| | | | | | | | | | |
|---------------------------|---|----------------|-----------|--|--|--|--|------------|-------|
| | and related methods | | | | | | | | |
| United States | Boundary artifact suppression in segmented liquid crystal modulators | 13/536058 | 28-Jun-12 | | | | | RealD Inc. | Filed |
| United States | Speckle reduction using screen vibration techniques and apparatus | 13/544962 | 9-Jul-12 | | | | | RealD Inc. | Filed |
| United States | Speckle reduction using lenslet integrator | 13/544964 | 9-Jul-12 | | | | | RealD Inc. | Filed |
| United States | Laser systems and methods | 13/544957 | 9-Jul-12 | | | | | RealD Inc. | Filed |
| United States | Despeckling devices and methods | 13/544959 | 9-Jul-12 | | | | | RealD Inc. | Filed |
| United States | Method and apparatus for joining screen material for minimal optical distortion | 13/549304 | 13-Jul-12 | | | | | RealD Inc. | Filed |
| Patent Cooperation Treaty | Method and apparatus for joining screen material for minimal optical distortion | PCT/US12/46793 | 13-Jul-12 | | | | | RealD Inc. | Filed |
| United States | Optical systems with compact back focal lengths | 13/550213 | 16-Jul-12 | | | | | RealD Inc. | Filed |
| Patent Cooperation Treaty | Optical systems with compact back focal lengths | PCT/US12/46917 | 16-Jul-12 | | | | | RealD Inc. | Filed |

PATENT

REEL: 038216 FRAME: 0861

| | | | | | | | | | | |
|---------------------------|--|----------------|-----------|--|--|--|--|------------|-------|-----------|
| United States | Autostereoscopic display with a passive cycloidal diffractive waveplate | 13/593625 | 24-Aug-12 | | | | | RealD Inc. | Filed | |
| Patent Cooperation Treaty | Auto-stereoscopic display with a passive cycloidal diffractive waveplate | PCT/US12/52189 | 24-Aug-12 | | | | | RealD Inc. | Filed | |
| United States | Stereoscopic display system with liquid-crystal switchable retarder | 13/646253 | 5-Oct-12 | | | | | RealD Inc. | Filed | |
| United States | Chemically-welded optical devices | 13/646472 | 5-Oct-12 | | | | | RealD Inc. | Filed | |
| United States | Electronic display tiling apparatus and method thereof | 13/655277 | 18-Oct-12 | | | | | RealD Inc. | Filed | |
| Patent Cooperation Treaty | Electronic display tiling apparatus and method thereof | PCT/US12/60873 | 18-Oct-12 | | | | | RealD Inc. | Filed | |
| United States | Stepped imaging directional backlight arrays | 61/648840 | 18-May-12 | | | | | RealD Inc. | Filed | 18-May-13 |
| United States | Imaging directional backlight with two dimensional window arrays | 61/648873 | 18-May-12 | | | | | RealD Inc. | Filed | 18-May-13 |
| United States | Source conditioning for imaging directional backlights | 61/648888 | 18-May-12 | | | | | RealD Inc. | Filed | 18-May-13 |

PATENT

REEL: 038216 FRAME: 0862

| | | | | | | | | | | |
|---------------|---|-----------|-----------|--|--|--|--|------------|-------|-----------|
| United States | Cross talk suppression apparatus and method thereof | 61/648942 | 18-May-12 | | | | | RealD Inc. | Filed | 18-May-13 |
| United States | Method for forming reflective light extraction features | 61/648995 | 18-May-12 | | | | | RealD Inc. | Filed | 18-May-13 |
| United States | Control system for a directional light source | 61/649050 | 18-May-12 | | | | | RealD Inc. | Filed | 18-May-13 |
| United States | Method and apparatus for managing optical non-uniformities in seaming processes | 61/607331 | 6-Mar-12 | | | | | RealD Inc. | Filed | 6-Mar-13 |
| United States | Laser architectures | 61/621067 | 6-Apr-12 | | | | | RealD Inc. | Filed | 6-Apr-13 |
| United States | Window forming elements for imaging directional backlights | 61/649087 | 18-May-12 | | | | | RealD Inc. | Filed | 18-May-13 |
| United States | Wide angle imaging directional backlights | 61/649054 | 18-May-12 | | | | | RealD Inc. | Filed | 18-May-13 |
| United States | Polarization recovery in imaging directional backlights | 61/649116 | 18-May-12 | | | | | RealD Inc. | Filed | 18-May-13 |
| United States | Optical inline directional backlight apparatus and method thereof | 61/649124 | 18-May-12 | | | | | RealD Inc. | Filed | 18-May-13 |
| United States | Method of manufacturing | 61/649133 | 18-May-12 | | | | | RealD Inc. | Filed | 18-May-13 |

PATENT

REEL: 038216 FRAME: 0863

| | | | | | | | | | |
|------------------|---|-----------|-----------|--|--|--|------------|-------|-----------|
| | directional backlight apparatus and directional structured optical film | | | | | | | | |
| United States | Diffraction reflectors for imaging directional backlights | 61/649136 | 18-May-12 | | | | RealD Inc. | Filed | 18-May-13 |
| United | Planar display aparatus | 61/649141 | 18-May-12 | | | | RealD Inc. | Filed | 18-May-13 |
| United States | Spatially multiplexed imaging directional backlight displays | 61/649149 | 18-May-12 | | | | RealD Inc. | Filed | 18-May-13 |
| United States | Method, apparatus and system on a chip for controlling a stereoscopic display device | 61/653326 | 30-May-12 | | | | RealD Inc. | Filed | 30-May-13 |
| United States | Observer tracking autostereoscopic display | 61/674735 | 23-Jul-12 | | | | RealD Inc. | Filed | 23-Jul-13 |
| United States | Observer tracking autostereoscopic display | 61/709051 | 2-Oct-12 | | | | RealD Inc. | Filed | 2-Oct-13 |
| United States | Reduction of polarized light artifacts in stereoscopic image capture | 61/684548 | 17-Aug-12 | | | | RealD Inc. | Filed | 17-Aug-13 |
| United States | Stereoscopic image capture with spatially- | 61/684557 | 17-Aug-12 | | | | RealD Inc. | Filed | 17-Aug-13 |

PATENT

REEL: 038216 FRAME: 0864

| | | | | | | | | | |
|---------------------------|--|----------------|-----------|--|--|--|--|------------|-----------------|
| | multiplexed aperture | | | | | | | | |
| United States | Mechanical design and optical benefits of high elastic modulus cinema screen substrates | 61/697692 | 6-Sep-12 | | | | | RealD Inc. | Filed 6-Sep-13 |
| United States | Temporally multiplexed display with landscape and portrait operation modes | 61/709038 | 2-Oct-12 | | | | | RealD Inc. | Filed 2-Oct-13 |
| United States | Stepped waveguide autostereoscopic display apparatus comprising a reflective directional element | 61/709068 | 2-Oct-12 | | | | | RealD Inc. | Filed 2-Oct-13 |
| United States | Electronic display tiling apparatus and propagation based method thereof | 13/655261 | 18-Oct-12 | | | | | RealD Inc. | Filed |
| Patent Cooperation Treaty | Electronic display tiling apparatus and propagation based method thereof | PCT/US12/60867 | 18-Oct-12 | | | | | RealD Inc. | Filed |
| United States | | 61/718967 | 26-Oct-12 | | | | | RealD Inc. | Filed 26-Oct-13 |

PATENT

REEL: 038216 FRAME: 0865

Patents

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Expiration Date |
|---------------------------|---|----------------|-------------------|-----------|------------|---------------|-------------------|
| United States | Imaging path speckle mitigation | 13/667878 | 02 November, 2012 | | | RealD Inc. | |
| Patent Cooperation Treaty | Imaging path speckle mitigation | PCT/US12/63260 | 02 November, 2012 | | | RealD Inc. | |
| United States | Wide angle imaging directional backlights | 61/727421 | 16 November, 2012 | | | RealD Inc. | 16 November, 2013 |
| United States | Improved liquid crystal drive technique | 61/731288 | 29 November, 2012 | | | RealD Inc. | 29 November, 2013 |
| United States | Laser beam scanned display apparatus and method thereof | 13/689621 | 29 November, 2012 | | | RealD Inc. | |
| Patent Cooperation Treaty | Laser beam scanned display apparatus and method thereof | PCT/US12/67134 | 29 November, 2012 | | | RealD Inc. | |
| United States | Stereoscopic eyewear and optical filters therefor | 61/733883 | 05 December, 2012 | | | RealD Inc. | 05 December, 2013 |
| United States | Eyeglasses | 29/439103 | 06 December, 2012 | | | RealD Inc. | |
| United States | Waveplate compensation in projection polarization conversion system | 13/710356 | 10 December, 2012 | | | RealD Inc. | |

| | | | | | | | | |
|---------------------------|--|-----------------|-------------------|----------------|-------------------|--|------------|-------------------|
| United States | Compound curved stereoscopic eyewear | 13/714874 | 14 December, 2012 | | | | RealD Inc. | |
| United States | Temporally multiplexed display with landscape and portrait operation modes | 61/745160 | 21 December, 2012 | | | | RealD Inc. | 21 December, 2013 |
| United States | Superlens component for time multiplexed autostereoscopic display | 61/745334 | 21 December, 2012 | | | | RealD Inc. | 21 December, 2013 |
| United States | Beam scanned display apparatus and method thereof | 13/734519 | 04 January, 2013 | | | | RealD Inc. | |
| United States | Multi-primary backlight for multi-functional active-matrix liquid crystal displays | 61/749208 | 04 January, 2013 | | | | RealD Inc. | 04 January, 2014 |
| United States | Depth reallocation for stereoscopic displays | 61/749691 | 07 January, 2013 | | | | RealD Inc. | 07 January, 2014 |
| European Community Design | Eyeglasses | 002175935 | 31 January, 2013 | 002175935-0001 | 4 March, 2013 | | RealD Inc. | 31 January, 2038 |
| Canada | Eyeglasses | 149597 | 31 January, 2013 | | | | RealD Inc. | |
| Australia | Eyeglasses | 10485/2013 | 01 February, 2013 | 347305 | 26 February, 2013 | | RealD Inc. | 01 February, 2023 |
| Russian Federation | Eyeglasses | 2013500322 | 01 February, 2013 | | | | RealD Inc. | |
| Republic of Korea | Eyeglasses | 30-2013-0005977 | 04 February, 2013 | | | | RealD Inc. | |

| | | | | | | | | |
|---------------------------|--|------------------|-------------------|--|--|--|------------|-------------------|
| China P.R. | Eyeglasses | 201330039158.6 | 07 February, 2013 | | | | RealD Inc. | |
| Japan | Eyeglasses | 2013-002505 | 08 February, 2013 | | | | RealD Inc. | |
| United States | Laser architectures | 13/764770 | 11 February, 2013 | | | | RealD Inc. | |
| Patent Cooperation Treaty | Laser architectures | PCT/US13/25648 | 11 February, 2013 | | | | RealD Inc. | |
| United States | Polarization modulator | 29/445503 | 12 February, 2013 | | | | RealD Inc. | |
| Mexico | Eyeglasses | MX/H/2013/000411 | 15 February, 2013 | | | | RealD Inc. | |
| United States | Binocular fixation imaging method and apparatus | 61/766599 | 19 February, 2013 | | | | RealD Inc. | 19 February, 2014 |
| United States | Stereoscopic eyewear and optical filters therefor | 61/767175 | 20 February, 2013 | | | | RealD Inc. | 20 February, 2014 |
| United States | Directional backlight | 61/768371 | 22 February, 2013 | | | | RealD Inc. | 22 February, 2014 |
| United States | Light efficient acoustically transmissive front projection screens | 13/786092 | 05 March, 2013 | | | | RealD Inc. | |
| Patent Cooperation Treaty | Light efficient acoustically transmissive front projection screens | PCT/US13/29169 | 05 March, 2013 | | | | RealD Inc. | |
| United States | Illumination apparatus and control system for a directional display device | 61/791928 | 15 March, 2013 | | | | RealD Inc. | 15 March, 2014 |

PATENT

REEL: 038216 FRAME: 0868

| | | | | | | | | |
|---------------------------|---|----------------|----------------|--|--|--|------------|--|
| United States | Crosstalk suppression in a directional backlight | 13/836443 | 15 March, 2013 | | | | RealD Inc. | |
| United States | Polarization recovery in a directional display device | 13/837466 | 15 March, 2013 | | | | RealD Inc. | |
| United States | Directional Backlight | 13/838936 | 15 March, 2013 | | | | RealD Inc. | |
| United States | Wide angle imaging directional backlights | 13/839552 | 15 March, 2013 | | | | RealD Inc. | |
| United States | Optimal depth mapping | 13/845876 | 18 March, 2013 | | | | RealD Inc. | |
| United States | Laser architectures | 13/857810 | 5 April, 2013 | | | | RealD Inc. | |
| Patent Cooperation Treaty | Laser architectures | PCT/US13/35485 | 5 April, 2013 | | | | RealD Inc. | |

Patents

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Expiration Date |
|---------------------------|---|----------------|------------------|-----------|------------|---------------|-----------------|
| United States | Stereoscopic projection systems and methods for employing spatial multiplexing at an intermediate image plane | 13/867,926 | 22 April 2013 | | | RealD Inc. | |
| United States | System and method for brightness balancing for cinema presentation | 61/823,188 | 14 May 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | Directional backlight | PCT/US13/41192 | 15 May 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | Crosstalk suppression in a directional backlight | PCT/US13/41228 | 15 May 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | Polarization recovery in a directional display device | PCT/US13/41237 | 15 May 2013 | | | RealD Inc. | |
| United States | Controlling light sources of a directional backlight | 13/896,870 | 17 May 2013 | | | RealD Inc. | |
| United States | Directionally illuminated waveguide arrangement | 13/897,039 | 17 May 2013 | | | RealD Inc. | |
| United States | Source conditioning for imaging directional backlights | 13/897,102 | 17 May 2013 | | | RealD Inc. | |
| United States | Spatially multiplexed imaging directional backlight displays | 13/897,150 | 17 May 2013 | | | RealD Inc. | |
| United States | Method of manufacturing directional backlight apparatus and directional structured optical film | 13/897,163 | 17 May 2013 | | | RealD Inc. | |
| United States | Control system for a directional light source | 13/897,191 | 17 May 2013 | | | RealD Inc. | |
| United States | Directional display apparatus | 13/897,236 | 17 May 2013 | | | RealD Inc. | |

PATENT

REEL: 038216 FRAME: 0870

| | | | | | | | |
|---------------------------|--|----------------|--------------|--|--|------------|--|
| United States | Directional Backlight | 13/897,261 | 17 May 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | Controlling light sources of a directional backlight | PCT/US13/41548 | 17 May 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | Control system for a light source | PCT/US13/41683 | 17 May 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | directional display apparatus | PCT/US13/41703 | 17 May 2013 | | | RealD Inc. | |
| United States | Method, apparatus and system on a chip for controlling a stereoscopic display device | 13/906,058 | 30 May 2013 | | | RealD Inc. | |
| United States | Lenticular display systems with offset color filter array | 13/911,886 | 6 June 2013 | | | RealD Inc. | |
| United States | Screen vibration for reducing speckle | 61/832,047 | 6 June 2013 | | | RealD Inc. | |
| United States | Depth corrected autostereoscopic video conferencing apparatus and method thereof | 61/835,923 | 17 June 2013 | | | RealD Inc. | |
| United States | Directional Polarization Preserving Screen | 61/841,086 | 28 June 2013 | | | RealD Inc. | |
| United States | Stereoscopic image format with depth information | 13/935,385 | 3 July 2013 | | | RealD Inc. | |
| United States | Observer tracking autostereoscopic display | 13/939,053 | 10 July 2013 | | | RealD Inc. | |
| United States | Polarization preserving projection screen with engineered pigment and method for making same | 13/942,259 | 15 July 2013 | | | RealD Inc. | |
| United States | Stereoplexing for film and video applications | 13/942,290 | 15 July 2013 | | | RealD Inc. | |
| United States | Charge recovery scheme | 13/945,724 | 18 July 2013 | | | RealD Inc. | |
| United States | Electronic display numerical aberration correction | 61/860,364 | 31 July 2013 | | | RealD Inc. | |

PATENT

REEL: 038216 FRAME: 0871

| | | | | | | | |
|---------------------------|--|----------------|------------------|--|--|------------|--|
| Patent Cooperation Treaty | Stereoscopic image capture | PCT/US13/55465 | 16 August 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | Stereoscopic image capture with split aperture systems | PCT/US13/55480 | 17 August 2013 | | | RealD Inc. | |
| United States | High elastic modulus projection screen substrates | 14/020,654 | 6 September 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | High elastic modulus projection screen substrates | PCT/US13/58624 | 6 September 2013 | | | RealD Inc. | |
| United States | Stepped waveguide autostereoscopic display apparatus with a reflective directional element | 14/044,607 | 2 October 2013 | | | RealD Inc. | |
| United States | Temporally multiplexed display with landscape and portrait operation modes | 14/044,767 | 2 October 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | Stepped waveguide autostereoscopic display apparatus with a reflective directional element | PCT/US13/63125 | 2 October 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | Temporally multiplexed display with landscape and portrait operation modes | PCT/US13/63133 | 2 October 2013 | | | RealD Inc. | |
| United States | Image Mastering | 61/887,160 | 4 October 2013 | | | RealD Inc. | |
| United States | Image Mastering | 61/887,175 | 4 October 2013 | | | RealD Inc. | |
| United States | Stereoscopic image capture | 14/064,765 | 8 October 2013 | | | RealD Inc. | |
| United States | Light input for directional backlight | 61/890,437 | 14 October 2013 | | | RealD Inc. | |
| United States | Energy Efficient directional backlight | 61/890,456 | 14 October 2013 | | | RealD Inc. | |
| United States | Control of directional display | 61/890,469 | 14 October 2013 | | | RealD Inc. | |
| United States | Directional backlights with light emitting element packages | 61/904,880 | 15 November 2013 | | | RealD Inc. | |

| | | | | | | | |
|---------------------------|--|----------------|-------------------|--|--|------------|--|
| United States | High dynamic range, high contrast projection systems | 61/904,940 | 15 November 2013- | | | RealD Inc. | |
| United States | Superlens component for directional display | 14/137,569 | 20 December 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | Superlens component for directional display | PCT/US13/77288 | 20 December 2013 | | | RealD Inc. | |
| Patent Cooperation Treaty | Multi-primary backlight for multi-functional active-matrix liquid crystal displays | PCT/US14/10239 | 3 January 2014 | | | RealD Inc. | |

PATENT

REEL: 038216 FRAME: 0873

Patents

| Country | Title | Application No | Application Date | Patent No | Grant Date | Current Owner | Expiration Date |
|---------------------------|---|----------------|------------------|-----------|------------|---------------|-----------------|
| Patent Cooperation Treaty | Binocular fixation imaging method and apparatus | PCT/US14/17214 | 19 January 2014 | | | RealD Inc. | |
| Patent Cooperation Treaty | Directional Backlight | PCT/US14/17779 | 21 January 2014 | | | RealD Inc. | |
| United States | Field-of-view compensated polarization switch for short-throw 3D projection | 14/166,636 | 28 January 2014 | | | RealD Inc. | |
| United States | Directional backlights with light emitting element packages | 61/934,086 | 31 January 2014 | | | RealD Inc. | |
| United States | Strain relieved mounting method for screen material | 61/938,304 | 11 February 2014 | | | RealD Inc. | |
| United States | Directional Backlight | 14/186,862 | 21 February 2014 | | | RealD Inc. | |
| United States | Curved retarder-based optical filters | 14/216,561 | 17 March 2014 | | | RealD Inc. | |
| United States | Directional Backlight | 61/968,935 | 21 March 2014 | | | RealD Inc. | |
| United States | Temporally multiplexed display with landscape and portrait operation modes | 14/262,148 | 25 April 2014 | | | RealD Inc. | |
| United States | Speckle reduction using screen vibration techniques and apparatus | 14/275,765 | 12 May 2014 | | | RealD Inc. | |
| Patent Cooperation Treaty | System and method for brightness balancing for cinema presentation | PCT/US14/38011 | 14 May 2014 | | | RealD Inc. | |
| United States | Polarization conversion system and method for projecting polarization encoded imagery | 14/281,727 | 19 May 2014 | | | RealD Inc. | |

PATENT**REEL: 038216 FRAME: 0874****RECORDED: 03/22/2016**