

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	OPTICAL DEVICES, LLC	03/27/2018
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	RPX CORPORATION	
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<b>City:</b>	SAN FRANCISCO	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	94105	
<b>PROPERTY NUMBERS Total: 10</b>		
<b>Property Type</b>	<b>Number</b>	
Patent Number:	7095683	
Patent Number:	6728182	
Patent Number:	6956797	
Patent Number:	6762980	
Patent Number:	6885619	
Patent Number:	6781929	
Patent Number:	6922380	
Patent Number:	6882601	
Patent Number:	6898164	
Patent Number:	6950380	
<b>CORRESPONDENCE DATA</b>		
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PATENT

<b>ATTORNEY DOCKET NUMBER:</b>	RPX.046
<b>NAME OF SUBMITTER:</b>	SCOTT H DAVISON
<b>SIGNATURE:</b>	/Scott H Davison/
<b>DATE SIGNED:</b>	06/13/2018
<b>Total Attachments: 10</b> source=Optical_Devices-RPX_Assignment#page1.tif source=Optical_Devices-RPX_Assignment#page2.tif source=Optical_Devices-RPX_Assignment#page3.tif source=Optical_Devices-RPX_Assignment#page4.tif source=Optical_Devices-RPX_Assignment#page5.tif source=Optical_Devices-RPX_Assignment#page6.tif source=Optical_Devices-RPX_Assignment#page7.tif source=Optical_Devices-RPX_Assignment#page8.tif source=Optical_Devices-RPX_Assignment#page9.tif source=Optical_Devices-RPX_Assignment#page10.tif	

**EXHIBIT G****PATENT ASSIGNMENT AGREEMENT**

This PATENT ASSIGNMENT AGREEMENT ("PATENT ASSIGNMENT") is entered into by and between Optical Devices, LLC, Delaware limited liability company, with a principal place of business at 20 Depot Street, Suite 2A, Peterborough, New Hampshire 03458 ("Assignor"), and RPX Corporation, a Delaware corporation with a principal place of business at One Market Plaza, Steuart Tower, Suite 1100, San Francisco, CA 94105 ("RPX").

For good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby:

(A) irrevocably assigns to RPX:

- (1) the entire right, title, and interest, everywhere in the world, to
  - (a) the issued patents and/or patent applications set forth on Schedule 1 hereto,
  - (b) any patent applications and/or patents that may claim priority to the item in (a) (including but not limited to continuations, continuations-in-part, divisionals, renewals, extensions, and reexaminations or reissues of the patent in (a), including any foreign counterparts of such patent, together with all priority rights and counterpart applications under any existing or future international patent conventions, agreements, or treaties),
  - (c) any other rights in the inventions described in any of (a) or (b), including rights to future patent applications and all rights of cooperation assigned or granted by a third party;

(all of the foregoing in (1), collectively, the "Assigned Patent");

- (2) the right to sue third parties for infringement (including but not limited to past, present and future infringement, damages and injunctive relief) of the Assigned Patent accruing based on activities occurring prior to the Effective Date hereof or hereafter; and
- (3) any current or future right to receive royalties based on any of the foregoing in (1) or (2);

(all of the foregoing in (A), collectively, the "Assigned Rights"); and

(B) agrees upon the reasonable request of RPX (or its successors, assigns, or legal representatives), but at RPX's expense, to, and if Assignor is unable or unwilling to do so authorizes RPX to act in Assignor's name to:

- (1) execute all truthful oaths, assignments, powers, and any other papers;

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- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with RPX;

in each case, related to securing and enforcing RPX's Assigned Rights related to this Patent Assignment.

RPX agrees that this assignment is being made subject to those agreements entered into by Assignor and set forth on Exhibit F to that Patent License, License Option and Assignment Agreement entered into on [ ], 2017, as updated through the date of the assignment.

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

IN WITNESS WHEREOF, the parties hereto have caused this Patent Assignment to be executed as of the Effective Date. Each individual signing below represents and warrants that he or she has authority to sign for and enter into this Patent Assignment on behalf of his or her

Agreed to:

Optical Devices, LLC

By: [Signature]  
Name: RYAN Fry  
Title: MANAGER  
Date: 3/27/18

Notary Seal:

*Sworn to before me and subscribed  
in my presence this 27th  
day of March 2018  
Richard Whiting, Notary Public*  
[Signature]

My Commission Expires November 21, 2021

RPX Corporation

By: [Signature]  
Name: Emily Gavin  
Title: General Counsel  
Date: 12 April 2018

**SCHEDULE 1**

Family	Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
2		CN1114195	CN1999102199	CN	Audio-video playback apparatus	Expired	2/9/1999		7/9/2003
2		CN1228581	CN1999102199	CN	Audio-video playback apparatus	Expired	2/9/1999	9/15/1999	
2		JP3531455	JP19980026958	JP	Image audio reproducing arrangement	Expired	2/9/1998	5/31/2004	
2		JPH11224059	JP19980026958	JP	Video and audio reproducing device	Expired	2/9/1998	8/17/1999	
2	US6704495		US09/246960	US	Audio-video device reproducing apparatus	Granted	2/9/1999		3/9/2004
3	US7672199		US09/950329	US	Close focus algorithm in a digital focus servo system	Granted	9/10/2001		3/2/2010
3	US6847596		US09/950331	US	Tracking servo system including a multi-track seek algorithm with a track zero crossing period integrity test	Expired	9/10/2001		1/25/2005
3	US7196979		US09/950360	US	Calibration storage methods for a digital focus and tracking servo system with calibration	Granted	9/10/2001		3/27/2007
3	US6891789		US09/950361	US	Tracking and focus servo system with automatic media type detector	Expired	9/10/2001		5/10/2005
3	US6847597		US09/950365	US	Optical disk drive with a digital focus and tracking servo system	Expired	9/10/2001		1/25/2005
3	US6813226		US09/950367	US	Calibration of a focus sum threshold in a focus servo system	Granted	9/10/2001		11/2/2004
3	US7492675		US09/950372	US	Digital servo system with calibrated notch filters	Granted	9/10/2001		2/17/2009

Family	Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
3	US7023766		US09/950373	US	Flexible servicing of servo algorithms using a digital signal processor	Granted	9/10/2001		4/4/2006
3	US7260031		US09/950376	US	Digital focus and tracking servo system with one-track jump	Granted	9/10/2001		8/21/2007
3	US6970403		US09/950377	US	Calibration of tracking error signal offset in a tracking servo system	Granted	9/10/2001		11/29/2005
3	US7522480		US09/950378	US	Digital tracking servo system with multi-track seek with an acceleration clamp	Granted	9/10/2001		4/21/2009
3	US7839729		US11/969190	US	Optical drive servo with a servo processor receiving photodetector signals	Granted	1/3/2008		11/23/2010
3	US8416651		US12/952135	US	Servo control using digital signal processing for optical disk drive	Granted	11/22/2010		4/9/2013
3	US9105281		US13/854475	US	Servo processor receiving photodetector signals	Granted	4/1/2013		8/11/2015
3	US8937854		US14/037482	US	Servo processor receiving photodetector signals	Granted	9/26/2013		1/20/2015
3	US9245569		US14/819796	US	Servo processor receiving photodetector signals	Granted	8/6/2015		1/26/2016
3	US9514777		US15/002726	US	Servo processor receiving photodetector signals	Granted	1/21/2016		12/6/2016
3		US20170148478	US15/369194	US	Servo processor receiving photodetector signals	Pending	12/5/2016		5/25/2017

Family	Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
3	US7016280		US09/950379	US	Tracking and focus servo system with defect detection	Granted	9/10/2001		3/21/2006
3	US7092322		US09/950392	US	Calibration of focus error signal offset in a focus servo system	Granted	9/10/2001		8/15/2006
3	US7593300		US09/950393	US	Digital tracking servo system with off-format detection	Granted	9/10/2001		9/22/2009
3	US6970410		US09/950394	US	Focus detection in a digital focus servo system	Granted	9/10/2001		11/29/2005
3	US7020054		US09/950395	US	Digital servo system with biased feed-forward	Granted	9/10/2001		3/28/2006
3	US6958957		US09/950396	US	Digital tracking and focus servo system with tes to fes crosstalk calibration	Granted	9/10/2001		10/25/2005
3	US7680004		US09/950397	US	Digital servo system with inverse non-linearity compensation	Granted	9/10/2001		3/16/2010
3	US7782721		US09/950398	US	Digital focus and tracking servo system with multi-zone calibration	Granted	9/10/2001		8/24/2010
3	US6738320		US09/950408	US	System and method for moving optical pick up from current position to target position with smooth control	Granted	9/10/2001		5/18/2004
3	US6965547		US09/950409	US	Tracking and focus servo system with error signal inverse non-linearity calibration	Granted	9/10/2001		11/15/2005
3	US6882603		US09/950410	US	Digital tracking servo system with tracking skate detection	Expired	9/10/2001		4/19/2005

Family	Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
3	US7095683		US09/950411	US	Tracking and focus digital servo system with write abort	Granted	9/10/2001		8/22/2006
3	US6728182		US09/950412	US	Tracking and focus servo system with a media type boundary crossing detector	Granted	9/10/2001		4/27/2004
3	US6956797		US09/950413	US	Digital servo system with error signal integrity testing	Granted	9/10/2001		10/18/2005
3	US6762980		US09/950414	US	Digital tracking servo system with a multi-track seeking and accelerated servo function for regaining a closed tracking loop	Granted	9/10/2001		7/13/2004
3	US6885619		US09/950415	US	Detector input stray light offset calibration in an optical disk drive	Expired	9/10/2001		4/26/2005
3	US6781929		US09/950425	US	Digital tracking servo system with multi-track seek	Granted	9/10/2001		8/24/2004
3	US6922380		US09/950432	US	Tracking and focus servo system with anti-skate algorithm	Expired	9/10/2001		7/26/2005
3	US6882601		US09/950441	US	Digital servo system with feed-forward control loops	Expired	9/10/2001		4/19/2005
3	US6898164		US09/950444	US	Close tracking algorithm in a digital tracking servo system	Expired	9/10/2001		5/24/2005
3	US6950380		US09/950512	US	Detector input dark current offset calibration in an optical disk drive digital servo	Granted	9/10/2001		9/27/2005
3	US6909676		US09/950513	US	Digital tracking servo system with multi-	Expired	9/10/2001		6/21/2005



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					track seek with track zero crossing detection				
3	US6937543		US09/950514	US	Digital focus servo system with a sliding notch filter	Expired	9/10/2001		8/30/2005
3	US6813228		US09/950515	US	Tracking and focus servo system with direction sensor	Granted	9/10/2001		11/2/2004
3	US6809995		US09/950516	US	Digital focus and tracking servo system	Granted	9/10/2001		10/26/2004
3	US6904007		US09/950519	US	Digital servo system with loop gain calibration	Granted	9/10/2001		6/7/2005
3	US6906985		US09/950520	US	Calibration of tracking error signal gain in a tracking servo system	Expired	9/10/2001		6/14/2005
3	US6930963		US09/950540	US	Tracking and focus servo system with head load	Expired	9/10/2001		8/16/2005
3	US7023776		US09/950541	US	Calibration initiation methods for a tracking and focus servo system	Granted	9/10/2001		4/4/2006
3	US7414940		US09/950548	US	Calibration of a focus error signal gain in a focus servo system	Granted	9/10/2001		8/19/2008
3	US6891781		US09/950914	US	Digital servo system with second order compensator	Expired	9/10/2001		5/10/2005
3	US7065018		US09/951108	US	Clv system and method using psa lookup	Granted	9/10/2001		6/20/2006
3	US6898170		US09/951325	US	Pmad/psa digital feedback system	Expired	9/10/2001		5/24/2005
3	US6754151		US09/951328	US	Bemf timing system	Granted	9/10/2001		6/22/2004
3	US6958963		US09/951329	US	System and method for handling events in an optical disc drive	Granted	9/10/2001		10/25/2005

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3	US6901040		US09/951330	US	Kp and ki lookup system and method	Expired	9/10/2001		5/31/2005
3	US7057983		US09/951331	US	System and method for controlling tracking and seeking in an optical disc drive	Granted	9/10/2001		6/6/2006
3	US7095685		US09/951332	US	System and method for detecting and recovering from an off-format state in an optical disc drive	Granted	9/10/2001		8/22/2006
3		US20050243666	US11/165792	US	System and method for detecting and recovering from an off-format state in an optical disc drive	Expired	6/23/2005	11/3/2005	
3		US20020131338	US09/951333	US	System and method for controlling operation of a disc drive for optical media with premastered and read/write sectors	Abandoned	9/10/2001	9/19/2002	
3	US6885620		US09/951337	US	System and method for recovering from performance errors in an optical disc drive	Expired	9/10/2001		4/26/2005
3	US6741530		US09/951339	US	Time critical and non-time critical tasks control system for an optical disk using first and second processors	Granted	9/10/2001		5/25/2004
3		US20020131354	US09/951340	US	System and method for controlling laser power in an optical disc drive	Expired	9/10/2001	9/19/2002	
3	US7038988		US09/951469	US	System and method for controlling time critical operations in	Granted	9/10/2001		5/2/2006

Family	Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
					a control system for an optical disc drive				
3	US7079459		US09/951475	US	System and method for performing a spin motor startup operation	Granted	9/10/2001		7/18/2006
3	US6977873		US09/951850	US	System and method to adjust the level of re-calibration effort based on disc drive performance	Granted	9/10/2001		12/20/2005
3	US6876609		US09/951869	US	System and method for controlling a spin motor	Expired	9/10/2001		4/5/2005
3	US6704261		US09/951930	US	Spin motor control in an optical drive	Granted	9/10/2001		3/9/2004
3	US7116621		US09/951931	US	System and method for handling commands in an optical disc drive	Granted	9/10/2001		10/3/2006
3	US7054242		US09/951940	US	System and method for controlling focus in an optical disc drive	Granted	9/10/2001		5/30/2006
3	US6963524		US09/951947	US	System and method for controlling interrupts in a control system for an optical disc drive	Granted	9/10/2001		11/8/2005
3		TWI223795	TW20020100910	TW	System and method for controlling an optical disc drive	Expired	1/21/2002	11/11/2004	
3		TWI277079	TW20020101100	TW	Optical disk drive with digital focus and tracking servo system	Expired	1/23/2002	3/21/2007	
3		AU2002236835	AU20020236835	AU	Spin motor control in an optical drive	Expired	1/18/2002	8/6/2002	
3		AU2002241961	AU20020241961	AU	System and method for controlling an optical disk drive	Expired	1/24/2002	8/6/2002	

Family	Patent No.	Pub. No.	App. No.	Country	Title	Status	File Date	Pub. Date	Issue Date
3		WO02059888	WO2002US02221	WO	Optical disk drive with digital focus and tracking servo system	Expired	1/22/2002	8/1/2002	
3		WO02059887	WO2002US02090	WO	System and method for controlling an optical disk drive	Expired	1/24/2002	8/1/2002	
3		WO02059893	WO2002US01841	WO	Spin motor control in an optical drive	Expired	1/18/2002	8/1/2002	
4	US6639877		US10/094654	US	Information recording and reproducing apparatus, and control method thereof	Granted	3/12/2002		10/28/2003
4		EP1241667	EP20020005711	EP	Information recording and reproducing apparatus, and control method thereof	Expired	3/13/2002	9/18/2002	
4		JP4654523	JP20010072245	JP	Information reproducing apparatus	Expired	3/14/2001	3/23/2011	