

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6473026

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
COMCAST CABLE COMMUNICATIONS, LLC	11/24/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TIVO CORPORATION
<b>Street Address:</b>	2160 GOLD STREET
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95002
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17137227
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	6469732500
<b>Email:</b>	romina.gallo@hglaw.com
<b>Correspondent Name:</b>	HALEY GUILIANO LLP
<b>Address Line 1:</b>	75 BROAD STREET
<b>Address Line 4:</b>	NEW YORK, NEW YORK 10004
<b>ATTORNEY DOCKET NUMBER:</b>	001441-1097-104
<b>NAME OF SUBMITTER:</b>	ROMINA GALLO
<b>SIGNATURE:</b>	/Romina Gallo/
<b>DATE SIGNED:</b>	12/29/2020
<b>Total Attachments: 7</b>	
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**ASSIGNMENT OF PATENTS  
AND APPLICATIONS FOR PATENTS**

THIS ASSIGNMENT OF PATENTS AND APPLICATIONS FOR PATENTS (this “**Assignment**”) is made as of November 24, 2020, by and between TiVo Corporation, a corporation organized under the laws of Delaware, whose principal place of business is located at 2160 Gold St, San Jose, California 95002 (“**Assignee**”), and Comcast Cable Communications, LLC, a limited liability company organized under the laws of Delaware, whose principal place of business is located at One Comcast Center 1701 John F. Kennedy Boulevard, Philadelphia, Pennsylvania 19103 (“**Assignor**”). Each of Assignor and Assignee may be referred to herein as a “**Party**” and collectively, as the “**Parties**”.

**WITNESSETH:**

WHEREAS, Assignor (or an affiliate thereof) and Assignee are parties to that certain Patent Purchase Agreement, dated as of November 9, 2020 (the “**Purchase Agreement**”), pursuant to which, among other things, Assignor (or its affiliate) agreed to assign to Assignee all of Assignor’s right, title and interest in, to and under the patents and patent applications set forth on Schedule 1 and the inventions claimed therein (collectively, the “**Comcast Patents**”), subject to Assignor (or its affiliate) receiving the payment set forth in the Purchase Agreement and Assignor (and its affiliates) being granted a license with respect to the Comcast Patents, in each case pursuant to the terms and conditions of the Purchase Agreement; and

WHEREAS, Assignor desires to assign all right, title and interest in, to and under the Comcast Patents to Assignee and Assignee desires to acquire all such right, title and interest in, to and under the Comcast Patents.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and as more fully set forth in the Purchase Agreement and subject to the terms and conditions therein, Assignor and Assignee intending to be legally bound, agree as follows:

1. **Transfer of the Comcast Patents.** Subject to the terms and conditions of the Purchase Agreement (including the license from Assignee to Assignor and its affiliates in respect of the Comcast Patents as set forth in the Purchase Agreement), Assignor hereby sells, assigns, transfers, conveys and delivers unto Assignee all right, title and interest in, to and under the Comcast Patents (including all (a) causes of action and other enforcement, including the rights to sue or countersue, pursue damages, pursue injunctive relief, to collect, recover, or retain damages and costs and attorney’s fees, and any other remedies of any kind, in each case for past, present, and future infringement, (b) rights to recover and collect royalties and other payments due now or hereafter due or payable, and (c) statutory rights (including the right to practice), in each case with respect to the Comcast Patents), to be held and enjoyed by Assignee to the full end of the term for which said

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Comcast Patents may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment and sale not been made.

2. NO WARRANTIES OR INDEMNITIES. THE PARTIES ACKNOWLEDGE AND AGREE THAT, EXCEPT AS EXPRESSLY SET FORTH IN THE PURCHASE AGREEMENT, THE COMCAST PATENTS ARE SOLD, ASSIGNED AND TRANSFERRED UNTO ASSIGNEE ON AN "AS-IS" BASIS AND ASSIGNOR (A) MAKES NO REPRESENTATIONS OR WARRANTIES (EXPRESS OR IMPLIED), INCLUDING REPRESENTATIONS OR WARRANTIES (EXPRESS OR IMPLIED) AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR USE OR PURPOSE OR NON-INFRINGEMENT, VALIDITY OR ENFORCEABILITY OF INTELLECTUAL PROPERTY, (B) GRANTS NO INDEMNITIES (EXPRESS OR IMPLIED) AND (C) SHALL HAVE NO OTHER LIABILITY OR FINANCIAL OBLIGATION TO ASSIGNEE OR ANY OTHER PERSON OR ENTITY, IN THE CASE OF (A), (B) AND (C), WITH RESPECT TO THE COMCAST PATENTS OR OTHERWISE IN CONNECTION WITH THIS ASSIGNMENT.

3. Governmental Authorities. Assignor hereby authorizes and requests the officials of all countries in which the Comcast Patents are now or in the future will be issued to issue to Assignee all of Assignor's right, title and interest in and to the same for the sole use and enjoyment of Assignee and its successors and assigns (it being understood that, notwithstanding the foregoing, nothing herein shall be construed as limiting in any way any licenses granted to Assignor or any of its affiliates in respect of the Comcast Patents).

4. Governing Law and Venue. This Assignment shall be governed by and construed in accordance with the laws of the State of New York, without regard to the conflicts of law rules of such state. Any dispute arising under or out of this Assignment shall be heard exclusively in the state or federal courts of the State of New York as its venue.

5. Counterparts; Effectiveness. This Assignment may be executed in one or more counterparts, each of which shall be deemed to be an original, but all of which together shall constitute one and the same instrument. This Assignment shall become effective only after and subject to each Party having received a counterpart hereof signed by the other Party.


6. Successors. This Assignment shall inure to the benefit of and is binding upon the respective successors and assigns of Assignor and Assignee.

[Signature page follows]

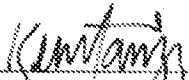
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IN WITNESS WHEREOF, the Parties have caused this Assignment to be duly executed as of the day and year first above written.

COMCAST CABLE COMMUNICATIONS, LLC

By:   
Name: David L. Marcus  
Title: SVP, SDGC, Chief Litigation Counsel

TIVO CORPORATION

By:   
Name: KEVIN TANJI  
Title: AUTHORIZED SIGNATORY

## EXECUTION VERSION

Schedule 1Comcast Patents

Country	Filing Date	Application Number	Patent Number
CA	5/17/2004	CA20042525587	CA2525587
JP	5/17/2004	JP20060533170	JP4800953
US	5/17/2004	US10/847198	US9176643
US	7/31/2014	14/447979	US10728598
US	1/19/2004	10/761108	US8087058
US	11/30/2011	13/307277	US8832765
CA	3/10/2005	CA20052562870	CA2562870
US	4/14/2004	US10/823869	US8418202
US	4/15/2004	US10/825926	US8276176
CA	3/10/2005	CA20052562873	CA2562873
US	9/13/2005	US11/719047	US9037494
US	9/20/2004	US10/945085	US7634792
US	12/11/2009	US12/636510	US8621519
US	11/20/2013	US14/085517	US9497510
CA	5/23/2006	CA20062609820	CA2609820
US	5/24/2005	US11/136049	US7415603
US	6/7/2006	US11/448207	US7912195
US	2/24/2011	US13/033721	US8594289
US	10/21/2013	US14/058779	US9070154
CA	6/7/2007	CA20072654454	CA2654454
CA	11/19/2007	CA2611063A	CA2611063
US	9/23/2014	14/493947	US10074395
US	8/13/2018	16/102279	N/A
US	11/20/2006	11/561541	US8897622
CA	3/26/2010	CA2697902	CA2697902
DE	3/26/2010	EP20100157939	EP2249546
GB	3/26/2010	EP20100157939	EP2249546
FR	3/26/2010	EP20100157939	EP2249546
DE	3/26/2010	EP20160165678	EP3062488
GB	3/26/2010	EP20160165678	EP3062488
FR	3/26/2010	EP20160165678	EP3062488
US	5/4/2009	12/435053	US8078665
US	10/31/2011	13/285333	US8438210
CA	5/7/2010	CA2703413A	N/A
GB	5/6/2010	EP20100162206	EP2262260
FR	5/6/2010	EP20100162206	EP2262260

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DE	5/6/2010	EP20100162206	EP2262260
US	6/13/2014	14/304341	US10200762
US	12/21/2018	16/229382	N/A
US	5/29/2009	12/474796	US8782267
CA	11/5/2010	CA2720323A	CA2720323
GB	11/4/2010	EP20100190064	EP2323349
FR	11/4/2010	EP20100190064	EP2323349
DE	11/4/2010	EP20100190064	EP2323349
US	10/25/2017	15/793397	US10439862
US	11/13/2009	12/618502	US9832070
CA	8/26/2011	CA2750500A	N/A
GB	8/26/2011	EP20110179017	EP2426939
FR	8/26/2011	EP20110179017	EP2426939
DE	8/26/2011	EP20110179017	EP2426939
US	11/1/2017	15/800628	US10593369
US	1/30/2020	16/776646	N/A
US	9/2/2010	12/874517	US8234411
US	6/12/2012	13/494102	US8707349
US	4/21/2014	14/257548	US9837126
US	10/16/2019	US16/654449	N/A
US	4/29/2013	US13/872222	US9596283
US	9/30/2010	US12/894580	US8458362
US	2/1/2017	US15/421778	US10506010
CA	9/21/2011	CA20112753243	CA2753243
EP	9/19/2011	EP20110181773	EP2437509
US	7/27/2010	12/843959	US10601457
US	12/11/2019	16/711074	N/A
CA	7/27/2012	CA2783852A	CA2783852
CA	7/27/2012	CA3023556A	N/A
GB	7/27/2012	EP20120178357	EP2552109
FR	7/27/2012	EP20120178357	EP2552109
DE	7/27/2012	EP20120178357	EP2552109
US	1/13/2016	14/994783	US10726871
US	7/29/2011	13/193710	US8849948
US	8/25/2014	14/467785	US9269396
US	6/6/2011	US13/153675	US9112623
US	6/9/2011	13/156716	US9154813
US	11/14/2011	US13/295444	US8973066
US	11/28/2011	US13/304761	US10681394
CA	2/6/2013	CA20133040565	N/A
US	1/7/2019	US16/241683	N/A

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EP	2/6/2013	EP20130744208	EP2810416
US	6/30/2015	US14/755731	US9641605
US	2/1/2012	US13/363996	US9106663
CA	2/6/2013	CA20132863684	CA2863684
US	7/26/2012	13/559341	US10158898
US	10/26/2018	16/172392	N/A
US	3/9/2015	US14/642247	US9462064
US	10/29/2012	US13/662996	US9015274
US	9/1/2016	US15/254728	US10075538
CA	5/9/2014	CA20142851487	N/A
US	6/3/2019	US16/430229	N/A
EP	5/9/2014	EP20140167717	EP2802102
US	5/10/2013	US13/891496	US9866432
US	2/12/2013	US13/765139	US10264241
US	2/21/2013	US13/773359	US9197872
US	3/25/2020	US16/829745	N/A
US	7/12/2018	US16/033517	US10638171
US	9/28/2015	US14/867562	US10070161
US	6/16/2020	16/903137	N/A
US	6/18/2020	16/905290	N/A
US	4/22/2020	16/855415	N/A
US	6/30/2009	12/494347	US8296624
US	9/14/2012	13/616362	US8489964
US	6/24/2013	13/925217	US8775900
US	6/2/2014	14/293531	US9148254
CA	5/31/2010	CA2706084	CA2706084
EP	6/2/2010	EP10164695.8	N/A
US	5/22/2014	14/284978	US9521442
US	11/9/2016	15/347218	US10148985
US	9/28/2018	16/146498	US10757455
US	7/8/2020	US16/923533	N/A
US	5/20/2010	12/783926	US8898719
CA	5/5/2011	CA2739197	CA2739197
US	5/24/2011	13/115043	US9420259
US	7/12/2016	15/208113	US10368052
US	6/12/2019	US16/438833	N/A
CA	3/27/2012	CA2772509	N/A
EP	4/10/2012	12163635.1	EP2528335
GB	4/10/2012	12163635.1	EP2528335
FR	4/10/2012	12163635.1	EP2528335
DE	4/10/2012	12163635.1	DE602012056740.6



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US	8/21/2015	14/832233	US10178196
US	11/29/2018	16/204858	US10637954
US	3/20/2020	US16/825520	N/A
CA	8/19/2016	CA2939705	N/A
EP	8/19/2016	16184886.6	EP3133602
GB	8/19/2016	16184886.6	EP3133602
FR	8/19/2016	16184886.6	EP3133602
DE	8/19/2016	16184886.6	EP3133602
US	1/12/2015	14/594526	US9706240
US	11/5/2012	13/669045	US8978076
US	6/1/2017	US15/611468	N/A
CA	11/4/2013	CA2832179	CA2832179
EP	11/4/2013	13191348.5	EP2728889
GB	11/4/2013	13191348.5	EP2728889
FR	11/4/2013	13191348.5	EP2728889
DE	11/4/2013	13191348.5	DE602013055687.3
US	10/9/2012	13/647625	US10225597
US	1/9/2019	16/243944	N/A
US	2/25/2016	15/053542	US10575157
US	1/14/2020	US16/742586	N/A
US	5/4/2009	12/435025	US8190706
US	5/4/2009	12/435037	US8190751
DE	3/26/2010	10157953.0	DE602010024425.3
FR	3/26/2010	10157953.0	EP2249547
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CA	3/24/2010	CA2697704	CA2697704
CA	4/6/2010	CA2698911	CA2698911
US	8/20/2020	US16/998755	N/A

**PATENT****RECORDED: 12/29/2020****REEL: 054771 FRAME: 0226**