

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4028175

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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>  |
| RPX CORPORATION   | 03/05/2009   |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | TIVO INC.  |
| <b>Street Address:</b>  | 2160 GOLD STREET   |
| <b>City:</b>  | ALVISO   |
| <b>State/Country:</b>   | CALIFORNIA   |
| <b>Postal Code:</b>   | 95002-2160   |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |
| <b>Property Type</b>  | <b>Number</b>  |
| <b>Application Number:</b>  | 15083280   |
| <b>CORRESPONDENCE DATA</b>  |  |
| <b>Fax Number:</b>  | (650)670-8813  |
| <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>   | 6506708800   |
| <b>Email:</b>   | kcho@wongrees.com, docketing@wongrees.com,<br>kwong@wongrees.com |
| <b>Correspondent Name:</b>  | WONG & REES LLP  |
| <b>Address Line 1:</b>  | 4677 OLD IRONSIDES DRIVE   |
| <b>Address Line 2:</b>  | SUITE 370  |
| <b>Address Line 4:</b>  | SANTA CLARA, CALIFORNIA 95054                                    |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 60097-1258   |
| <b>NAME OF SUBMITTER:</b>   | KIRK D. WONG   |
| <b>SIGNATURE:</b>   | /KirkDWong#43284/  |
| <b>DATE SIGNED:</b>   | 08/29/2016   |
| <b>Total Attachments: 5</b>   |  |
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Patent Assignment

This patent assignment ("Assignment") is entered into as of March 5, 2009 by and between RPX Corporation, a Delaware corporation, with principal place of business at 3 Embarcadero Center, Suite 2310, San Francisco, CA 94111 ("Seller"), and TiVo Inc., a Delaware corporation, with a principal place of business at 2160 Gold Street, Alviso, CA 95002-2160 ("Buyer").

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

(A) irrevocably assigns to Buyer:

- (1) the entire right, title, and interest, everywhere in the world, to
  - (a) the issued patents and patent applications set forth on Schedule 1,
  - (b) any patent applications and/or patents that may claim priority of the items in (a) (including but not limited to continuations, divisions, substitutes, reissues, reexaminations, or extensions thereof, together with all priority rights and foreign counterpart applications under any existing or future international patent conventions, agreements, or treaties),
  - (c) any patent that may be granted on any patent application in (a) or (b), and
  - (d) any other rights in the inventions described in any of (a), (b) or (c) 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 Patents");

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

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

- (1) execute all oaths, assignments, powers, and any other papers;
- (2) testify in any proceeding; and
- (3) otherwise take any action, and fully cooperate with Buyer;

in each case, related to securing and enforcing Buyer's rights related to this Assignment.

[SIGNATURES ON NEXT PAGE]

Seller:

Notary Seal:

RPX Corporation

By: Paul M. Saraceni  
Signature

Paul M. Saraceni  
Name

Chief Intellectual Property Officer  
Title

March 5, 2009  
Date

Buyer:

Notary Seal:

TIVO Inc.

By: David L. Fligor  
Signature

David L. Fligor  
Name

Associate GC & Sr. Director, IP  
Title

March 17, 2009  
Date



PATENT

REEL: 039566 FRAME: 0320

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California }  
County of San Francisco

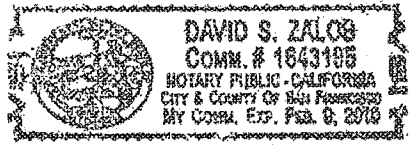
On March 6, 2009 before me, David S. Zalob, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Paul Saraceni  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.  
Signature [Handwritten Signature]  
Signature of Notary Public



Place Notary Seal Above

**OPTIONAL**

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

**Description of Attached Document**

Title or Type of Document: Patent Assignment

Document Date: 3/5/09 Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: \_\_\_\_\_

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

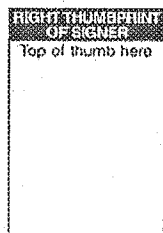
Signer Is Representing: \_\_\_\_\_



Signer's Name: \_\_\_\_\_

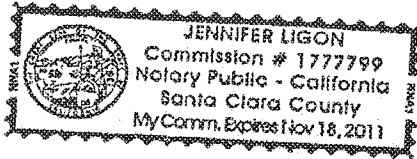
- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_



**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California  
County of Santa Clara  
On 3/17/09 before me, Jennifer Ligon, Notary Public  
personally appeared David L. Fligor



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

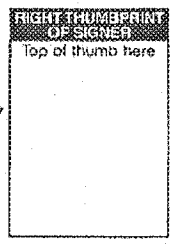
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal  
Signature Jennifer Ligon  
Signature of Notary Public

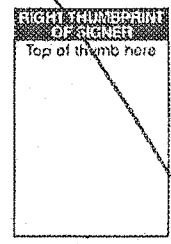
**OPTIONAL**  
Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document  
Title or Type of Document: Patent Assignment  
Document Date: 3/17/09 Number of Pages: 4  
Signer(s) Other Than Named Above: Paul M. Saraceni

Capacity(ies) Claimed by Signer(s)  
Signer's Name: David L. Fligor  
 Individual  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Attorney in Fact  
 Trustee  
 Guardian or Conservator  
 Other: Authorized Signatory  
Signer Is Representing: TiVo Inc.



~~Signer's Name: \_\_\_\_\_  
 Individual  
 Corporate Officer — Title(s): \_\_\_\_\_  
 Partner —  Limited  General  
 Attorney in Fact  
 Trustee  
 Guardian or Conservator  
 Other: \_\_\_\_\_  
Signer Is Representing: \_\_\_\_\_~~



SCHEDULE 1  
TO PATENT ASSIGNMENT

PATENTS AND PATENT APPLICATIONS

Patents

| Patent No.   | Filing Date | Issue Date         | Application No. | Title  |
|--------------|-------------|--------------------|-----------------|--|
| US 7,272,298 | May 6, 1998 | September 18, 2007 | 09/073,452      | "System and method for time-shifted program viewing" |

Patent Applications

| Application No.                               | Filing Date      | Title   | Status            |
|---|------------------|---|-------------------|
| US Provisional 60/697,525                     | July 7, 2005     | "DVR video catch up function"                                 | Expired           |
| US 11/482,139<br>(Published App. 20070009235) | July 7, 2006     | "System and method for digital content retrieval"             | Pending/Published |
| US 11/833,863<br>(Published App. 20080069519) | August 3, 2007   | "Multi-channel playback of audio/video content"               | Pending/Published |
| US 11/833,891<br>(Published App. 20080075426) | August 3, 2007   | "Playback of audio/video content with control codes"          | Pending/Published |
| US 11/951,959<br>(Published App. 200889671)   | December 6, 2007 | "Simultaneous recording and playback of audio/video programs" | Pending/Published |
| PCT/US06/26801<br>(WO 200700884)              | July 7, 2006     | "System and method for digital content retrieval"             | Published/Expired |
| EP 06786830.7                                 | November 9, 2007 | "System and method for digital content retrieval"             | Pending/Published |

PATENT