

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4711895

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DIGITALSMITHS CORPORATION	04/30/2014
RECEIVING PARTY DATA	
Name:	TIVO INC.
Street Address:	2160 GOLD STREET
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95002
PROPERTY NUMBERS Total: 4	
Property Type	Number
Application Number:	12206622
Application Number:	14707440
Application Number:	15045223
Application Number:	60970593
CORRESPONDENCE DATA	
Fax Number:	
<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:	maria.marley@hglaw.com
Correspondent Name:	HALEY GUILIANO LLP
Address Line 1:	75 BROAD STREET, SUITE 1000
Address Line 4:	NEW YORK, NEW YORK 10004
ATTORNEY DOCKET NUMBER:	113142-0136-101,2,3,001
NAME OF SUBMITTER:	MARIA MARLEY
SIGNATURE:	/MARIA MARLEY/
DATE SIGNED:	11/30/2017
Total Attachments: 3	
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**IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE**

PATENT ASSIGNMENT

WHEREAS, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, **Digitalsmiths Corporation**, a corporation of Delaware, with a place of business at 320 Blackwell Street, Suite 200, Durham, NC 27701, hereinafter referred to as "**Assignor**," has sold, assigned, transferred and set over, unto **TiVo Inc.**, a corporation of Delaware, with a place of business at 2160 Gold Street, Alviso, California 95002, hereinafter referred to as "**Assignee**," its successors, legal representatives and assigns, **Assignor's** entire right, title and interest in, to, and under the issued patents and provisional and non-provisional pending applications listed on the attached Schedule A, as well as any divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for inventions embodied by said pending applications in any country or countries foreign to the United States, and all Letters Patent which may be granted for said inventions embodied by said pending applications in any country or countries foreign to the United States and all extensions, renewals and reissues thereof and all rights of priority in any such country or countries based upon the filing of said pending applications in the United States which are created by any law, treaty or international convention; and **Assignor** hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty is to issue patents on any such applications as aforesaid, to issue all Letters Patent for said inventions to **TiVo Inc.**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND Assignor does hereby covenant that it had full right to convey the entire interest herein assigned, and that Assignor has not executed, and will not execute, any agreement in conflict herewith.

AND Assignor does further hereby covenant and agree that it will communicate to said Assignee, its successors, legal representatives and assigns, any facts known to it respecting said pending applications, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything reasonably necessary to aid said Assignee, its successors, legal representatives and assigns, to obtain and enforce any attendant rights in all countries.

IN WITNESS WHEREOF, Digitalsmiths Corporation has caused this instrument to be signed by a duly authorized corporate officer and its corporate seal to be affixed, as of this 30 day of April, 2014.

Digitalsmiths Corporation

By: Larry Denny

Name: Larry Denny

Title: Asst. Corp. Sec.

SCHEDULE A

DigitalSmiths patents and patent applications list:

Patent Numbers:

8,042,047

8,170,280

8,281,231

8,311,344

8,311,390

8,380,045

8,564,721

Patent Application Serial Numbers:

12/206,622

12/405,298

12/624,987

12/905,520

13/271,892

13/334,285

13/438,395

13/438,435

13/710,435

13/757,778

13/778,771