503935964 07/28/2016

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| PAUL WESTBROOK | 01/14/2003 |
| HOWARD LOOK | 01/15/2003 |
| JAMES YOUNG | 01/15/2003 |
| STEPHEN LACY | 01/15/2003 |
| TIMOTHY DAVISON | 01/14/2003 |
| JAMES M. BARTON | 08/09/2007 |

RECEIVING PARTY DATA

| Name: | TIVO INC. |
|-------------------|------------------|
| Street Address: | 2160 GOLD STREET |
| Internal Address: | P.O. BOX 2160 |
| City: | ALVISO |
| State/Country: | CALIFORNIA |
| Postal Code: | 95002-2160 |

PROPERTY NUMBERS Total: 4

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14799520 |
| Application Number: | 13686806 |
| Application Number: | 12806661 |
| Application Number: | 12360102 |

CORRESPONDENCE DATA

Fax Number: (650)670-8813

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| ATTORNEY DOCKET NUMBER: | 60097 |
|-----------------------------------|-------------------|
| NAME OF SUBMITTER: | KARL T. REES |
| SIGNATURE: | /KarlTRees#58983/ |
| DATE SIGNED: | 07/28/2016 |
| Total Attachments: 3 | |
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| source=1215 Assignment2#page1.tif | |

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ASSIGNMENT

WHEREAS, We, <u>Paul Westbrook</u>, <u>Howard Look</u>, <u>James Young</u>, <u>Stephen Lacy</u>, <u>and Timothy Davison</u>, hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements, as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: A System for Remotely Controlling Client Recording and Storage Behavior

WHEREAS, <u>TiVo Inc.</u>, a corporation duly organized under and pursuant to the laws of the State of California, and having its principal place of business at <u>2160 Gold Street</u>, <u>P.O. Box 2160</u>, Alviso, <u>CA 95002-2160</u>, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title, and interest in the said invention and application and in any Letters Patent which may be granted with regard to the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for One Dollar (\$1.00) and other good and valuable consideration, ASSIGNORS have sold, assigned, and transferred, and by these presents does sell, assign, and transfer unto the said ASSIGNEE, and ASSIGNEE'S successors and assigns, all right, title, and interest in and to said invention, said application for United States Letters Patent and any Letters Patent which may be hereafter granted on the same in the United States and all countries throughout the world, including any divisions, renewals, continuations in whole or part, substitutions, conversions, reissues, revivals, prolongation, or extensions thereof, said interest to be held and enjoyed by said ASSIGNORS had this assignment and transfer not been made, for all time.

ASSIGNORS further agree that they will, without charge to said ASSIGNEE, but at ASSIGNEE'S expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications, execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as ASSIGNEE may lawfully request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE'S successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed their names to the assignment on the date indicated below.

| Hal Sites | 1/14/2003 |
|-----------------|--------------------|
| Paul Westbrook | Date / / |
| Howard Too | 1/15/2003 |
| Høward Look | (Date /-/5-2=5 |
| James Young | Date |
| ARUNI Cerr | 1/15/2003 |
| Stephen Lacy | Date', |
| Cest Tame | 1/14/2013 |
| Timothy Davison | / Dá ť e |

Docket No.: 60097-0234

ASSIGNMENT

WHEREAS I, James M. Barton, of Alviso, California, have made certain new and useful invention(s) as set forth in a non-provisional application for United States Letters Patent, entitled SYSTEM FOR REMOTELY CONTROLLING CLIENT RECORDING AND STORAGE BEHAVIOR, for which a non-provisional application for United States Letters Patent was filed on January 8, 2003, and identified by United States Serial No. 10/339,700;

AND WHEREAS, **TiVo Inc.**, a corporation of the State of Delaware and having an address of 2160 Gold Street, P.O. Box 2160, Alviso, California, 95002-2160 is desirous of acquiring the entire right, title and interest in and to said invention(s) and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, we do hereby sell, assign, transfer and set over unto TiVo Inc., its legal representatives, successors, and assigns ("Assignee"), the entire right, title and interest in and to said invention(s) as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention(s);

UPON SAID CONSIDERATIONS, we hereby agree with the said Assignee that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we will, at any time upon request, without further or additional consideration but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisionals, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and Assignee;

AND we request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for any aforementioned invention to said Assignee, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

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Docket No.: 60097-0234

Title: SYSTEM FOR REMOTELY CONTROLLING CLIENT RECORDING AND STORAGE

BEHAVIOR

8/9/6

Date

JAMES M/BARTON

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