



03-22-1999



100989941

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies):

1. WISHOFF, CLAYTON W., 2. WOODSON, MORGAN, AND  
3. ASPROMONTE, BILL J.

2. Name and Address of Receiving Party

**PowerTV, Inc.**  
**20833 Stevens Creek Boulevard**  
**Suite 100**  
**Cupertino, California 95014**

State of Incorporation:

**California**

3. Nature of Conveyance: Assignment Execution Date: January 19, 1999.

4. This document is being filed for the previously-filed patent application having the following information:

INVENTOR(S) WISHOFF ET AL.  
APPL. NO. 09/220,305  
TITLE: METHOD AND APPARATUS FOR PROVIDING RELIABLE GRAPHIC  
MEMORY OPERATIONS IN A SET-TOP BOX ENVIRONMENT

the execution date of the application is: December 23, 1998.

5. Please send correspondence to:

Scientific-Atlanta, Inc.  
Intellectual Property Department  
One Technology Parkway, South  
Norcross, GA 30092-2967

6. Total Number of application and patents involved: 1

7. Total Fee (37 CFR 3.41) \$ 40.00

8. Please charge to Deposit Account No.: 19-0761

9. To the best of my knowledge and belief, the foregoing information is a true and correct original document.

**DO NOT USE THIS SPACE**

**SEND CORRESPONDENCE TO:**

Scientific-Atlanta, Inc.  
Intellectual Property Department  
One Technology Parkway, South  
Norcross, GA 30092-2967

By: *Kenneth M. Massaroni*

**KENNETH M. MASSARONI**  
Attorney of Record  
Reg. No.: 33,015  
Phone: (770) 903-4714  
Fax No.: (770) 903-4806

Total Number of pages comprising cover  
sheet: 1

Dated: March 3, 1999

03/15/1999 MTEKLEMT 00000113 190761 09220305

01 F01501

(40.00 CH)

**PATENT**  
**REEL: 9821 FRAME: 0895**

## ASSIGNMENT AND AGREEMENT

For and in consideration of the sum of One Dollar to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, **CLAYTON W. WISHOFF, MORGAN WOODSON, AND BILL J. ASPROMONTE** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto PowerTV, Inc., a corporation of the State of California, having its principal office in Cupertino, State of California, United States of America, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions relating to improvements in METHOD AND APPARATUS FOR PROVIDING RELIABLE GRAPHIC MEMORY OPERATIONS IN A SET-TOP BOX ENVIRONMENT (CASE A - 5354) described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to said application, and in and to Letters Patent which may be issued upon said application, and upon any division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto the said PowerTV, Inc., the entire right, title and interest in and to said invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of said invention and said applications for Letters Patent in foreign countries, and we further authorize the said PowerTV, Inc., to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the said application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to the said PowerTV, Inc., for the sole use and behalf of said PowerTV, Inc., its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to the said PowerTV, Inc.

We agree that, when requested, we will, without charge to said PowerTV, Inc., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said PowerTV, Inc., its successors, assigns and legal representatives or nominees.

We covenant with said PowerTV, Inc., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

Clayton W. Wishoff  
CLAYTON W. WISHOFF

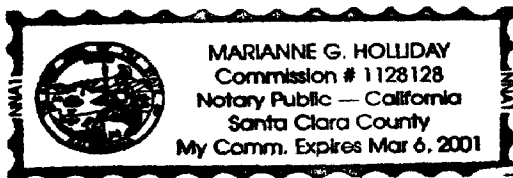
1/19/99  
DATE

STATE OF CALIFORNIA )

COUNTY OF Santa Clara )

I, Marianne G. Holliday a Notary Public in and for the County and State aforesaid, do hereby certify that the same person whose name is **CLAYTON W. WISHOFF** subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 19<sup>th</sup> day of January, 1999.



Marianne G. Holliday  
Notary Public Signature

M. Woodson  
MORGAN WOODSON

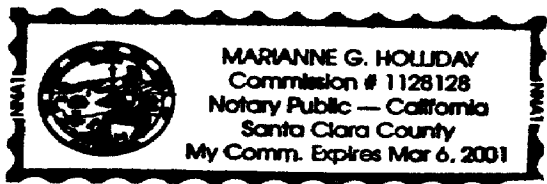
1/17/99  
DATE

STATE OF CALIFORNIA )

COUNTY OF Santa Clara )

I, Marianne G. Holliday, a Notary Public in and for the County and State aforesaid, do hereby certify that the same person whose name is **MORGAN WOODSON** subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 19<sup>th</sup> day of January 1999.



Marianne G. Holliday  
Notary Public Signature

Bill J. Aspromonte  
BILL J. ASPROMONTE

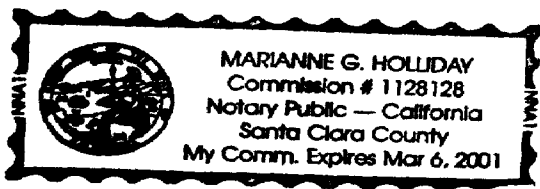
1/19/99  
DATE

STATE OF CALIFORNIA )

COUNTY OF Santa Clara )

I, Marianne G. Holliday, a Notary Public in and for the County and State  
aforesaid, do hereby certify that the same person whose name is **BILL J.**  
**ASPROMONTE** subscribed to the foregoing instrument, appeared before me this day in  
person and acknowledged that he signed, sealed and delivered said instrument as his  
free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 19<sup>th</sup> day of January, 1999.



Marianne G. Holliday  
Notary Public Signature