

Form PTO-1595 (Rev. 03-11)
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Kim A. Ryal

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) August 20, 2003

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)Name: Sony Corporation

Internal Address: _____

Street Address: 7-35 Kitashinagawa 6-ChomeShinagawa-KuCity: Tokyo

State: _____

Country: Japan Zip: _____Additional name(s) & address(es) attached? ☒ Yes ☐ No**4. Application or patent number(s):**☐ This document is being filed together with a new application.

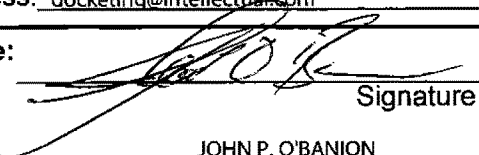
A. Patent Application No.(s)

B. Patent No.(s)

13/416,735

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: John P. O'BanionInternal Address: O'BANION & RITCHEY LLPStreet Address: 400 Capitol Mall, Suite 1550City: SacramentoState: CA Zip: 95814Phone Number: 916-498-1010Fax Number: 916-498-1074Email Address: docketing@intellectual.com**6. Total number of applications and patents involved: 1****7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40**

- ☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment InformationDeposit Account Number 07-1137Authorized User Name John P. O'Banion**9. Signature:**
Signature

JOHN P. O'BANION

Name of Person Signing

3/16/12
Date

Total number of pages including cover sheet, attachments, and documents:

4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
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Cont. of Box 2

Sony Electronics, Inc.
1 Sony Drive
Park Ridge, NJ 07656

PATENT

Attorney Docket No.: SON5180.31A

ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in **PREFERENCE BASED PROGRAM DELETION IN A PVR** for which application for Letters Patent of the United States of America is filed herewith listing the above named person(s) as inventor(s);

AND WHEREAS, Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa 6-Chrome, Shinagawa-Ku, Tokyo, Japan; Sony Electronics Inc., a corporation of the State of Delaware, having a place of business at 1 Sony Drive, Park Ridge, NJ 07656; (hereinafter referenced as ASSIGNEES) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto said ASSIGNEES, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEES, as the assignees of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEES or its designee, as ASSIGNEES or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEES thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEES will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

This assignment executed on the date indicated below.

Name of first inventor: KIM A. RYAL
Address: 13966 CARRIAGE ROAD
POWAY, CA 92064

Date of this Assignment: 8/20/03

Signature [Signature]

STATE OF California

SS.

COUNTY OF San Diego

On this 20 day of August in the year of 2003, before me, the undersigned notary public, personally appeared the above named assignors, known to me, (or proved to me on the basis of satisfactory evidence), to be the person whose name is subscribed to the within instrument, and acknowledged execution of this instrument.

[Signature]
Notary Public

