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To the Honorable Commissioner of Patents and T.

1. Name of conveying party(ies):
Chris Frank
Additional name(s) of conveying party(ies) attached? Yes No

Name and address of receiving party(ies):
Name: Sony Corporation
Internal Address: _____

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: June 26, 2000

Street Address: 7-35 Kitashinagawa 6-chome
Shinagawa-ku, Tokyo, Japan
City _____ State _____ ZIP _____
Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):
29125930
If this document is being filed together with a new application, the execution date of the application is: July 5, 2000
A. Patent Application No.(s)
B. Patent No.(s)
Additional numbers attached? Yes No

6. Total number of applications and patents involved: 1

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Jay H. Maioli
Internal Address: Cooper & Dunham LLP
Street Address: 1185 Avenue of the Americas
City: New York State: New York ZIP: 10036

7. Total fee (37 CFR 3.41): \$ 40.00
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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.
Jay H. Maioli, Reg. No. 27,213 Jay H. Maioli July 5, 2000
Name of Person Signing Signature Date
Total Number of pages comprising cover sheet: 1

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1. Sony Electronics Inc.
1 Sony Drive
Park Ridge, New Jersey 07656

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 design for a SET TOP BOX FOR TELEVISION RECEIVER for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address; Ronald L. Lytel residing at New York, NY, respectively.

AND WHEREAS, Sony Corporation, with offices at 6-7-35 Kitashinagawa, Shinagawa-ku, Tokyo 141, Japan and Sony Electronics Inc. with offices at 1 Sony Drive, Park Ridge, NJ 07656, respectively (hereinafter referenced as ASSIGNEES) are 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, WE, as a sole or joint inventors as indicated below, by these presents do hereby assign, sell and transfer unto the 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 Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, 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 assignee 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 their designee, as ASSIGNEES or their 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 thereof;

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 their 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 thereof;

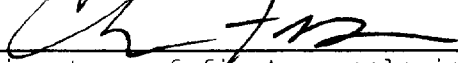
And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: Serial Number _____, Filing Date _____.

This assignment executed on the dates indicated below.

Chris Frank _____ Name
of first or sole inventor Execution date of U.S. Patent Application

Oakland, CA _____
Residence of first or sole inventor

 _____
Signature of first or sole inventor

June 26, 2000 _____
Date of this assignment