1-3-03 U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office 102491500 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies) 1. Name of conveying party(ies) SONY CORPORATION Name: 7-35 Kitashinagawa 6-chome Kei TASHIRO, Hideyuki SATO, Kiyotaka MURATA, Toshio TAKESHITA Shinagawa-Ku, Tokyo 141-0001, Japan Additional name(s) of conveying party(ies) attached? Additional name(s) & address(es) attached? Yes x No <u>X</u> No \_\_ Yes 3. Nature of conveyance: X Assignment Security Agreement Merger \_ Change of Name Other Execution Date: May 22, May 23, June 13 and June 2, 2003 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: USSN 10/257,295 (corresponding to Int'l Patent Application No.(s) PCT/JP02/01088 filed 8 February 2002) Additional numbers attached? \_\_ Yes \_X No 6. Total number of applications and Name and address of party to whom correspondence concerning document should be mailed: patents involved . . . . . . . . . . . . . . . . \_1\_ Name: WILLIAM S. FROMMER 7. Total fee (37 CFR 3.41) . . . . . . . . . . . \$ 40.00 Enclosed <u>X</u> Internal Address: FROMMER LAWRENCE & HAUG LLP Authorized to be charged to deposit account 50-0320 745 FIFTH AVENUE Street Address: 8. Deposit account number: NEW YORK State: N.Y. Zip: 10151 City: (Attach duplicate copy of this page if paying by deposit account) Do not use this space Statement and signature. 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. June 30, 2003 Glenn F. Savit Date Name of Person Signing Total number of pages including cover sheet, attachments, and document: 3 Do not detach this portion Mail documents to be recorded with required cover sheet information to: 07/07/2003 ECROPER 00000152 10257295 Mail Stop Assignent Recordation Services FC:8021 40.00 DP/ Director of the  $\overline{\text{US}}$  Patent and Trademark Office

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## ASSIGNMENT

WHEREAS, I, as below named inventors, residing at the addresses stated next to our names, 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

CHARGING/DISCHARGING APPARATUS AND METHOD, POWER SUPPLYING APPARATUS AND METHOD, POWER SUPPLYING SYSTEM AND METHOD, PROGRAM STORING MEDIUM. AND PROGRAM

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:

AND WHEREAS, SONY CORPORATION, a Japanese corporation, with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo 141, Japan (hereinafter referred to as ASSIGNEE) 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 the said ASSIGNEE, 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 ASSIGNEE, 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 ASSIGNEE or its designee, as ASSIGNEE 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 ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE 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.

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: International Serial Number:  $\underline{PCT/JP02/01088}$ , International Filing Date:  $\underline{8 \text{ February } 2002}$ .

This assignment executed on the dates indicated below.

Kei TASHIRO		
Name of first or sole inventor	Execution date of U.S. Patent Application	
Kanagawa, Japan		
Residence of first or sole inventor  Kei Tashina	May 22, 2003	
Signature of first or sole inventor	Date of Chis assignment	
Hideyuki SATO		
Name of second inventor	Execution date of U.S. Patent Application	
Chiba, Japan		
Residence of second inventor	May 23, 2003	
Signature of second inventor	Date of this assignment	
Kiyotaka MURATA		
Name of third inventor	Execution date of U.S. Patent Application	
Saitama, Japan		
Residence of third inventor  Rystaka Murata  Signature of third inventor	June 13, 2003	
Signature of third inventor	Date of this assignment	

## ADDITIONAL INVENTORS

Toshio TAKESHITA		
Name of fourth inventor	Execution date of U.S. Patent Application	
Kanagawa, Japan		
Residence of fourth inventor Joshur Tapashuta	kine 2, 2003	
Signature of fourth inventor	Date of this assignment	

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