To the Director of the U.S. Patent and  Name of conveying party(ies)/Execution Date(s Robert Hardacker Hiroyuki Mita Kenichi Kawasaki  Execution Date(s) 7/19/2006, 7/26/2006, 7/19/2006  Iditional name(s) of conveying party(ies) attached? Yes  Nature of conveyance:  Assignment Merger  Security Agreement Change of Name Government Interest Assignment  Executive Order 9424, Confirmatory License  Other	Name: Sony Corporation, a Japanese corporation Internal Address:  Street Address: 7-35 Kitashinagawa, 6-Chome,  Shinagawa-Ku  City: Tokyo	
Name of conveying party(ies)/Execution Date(s Robert Hardacker Hiroyuki Mita Kenichi Kawasaki  Execution Date(s) 7/19/2006, 7/26/2006, 7/19/2006  Iditional name(s) of conveying party(ies) attached? Yes  Nature of conveyance:  Assignment Merger  Security Agreement Change of Name  Government Interest Assignment  Executive Order 9424, Confirmatory License  Other  Application or patent number(s): The	2. Name and address of receiving party(ies)  Name: Sony Corporation, a Japanese corporation  Internal Address:  Street Address: 7-35 Kitashinagawa, 6-Chome,  Shinagawa-Ku  City: Tokyo  State:  Country: JAPAN Zip:  Additional name(s) & address(es) attached? Yes Inis document is being filed together with a new applica	Nc
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Name of Person Signing		<u>문</u>

PATENT REEL: 018235 FRAME: 0766

## Form **PTO-1595**

## RECORDATION FORM COVER SHEET PATENTS ONLY

Attachment for additional name(s) and address(es):

## 2. Name and address of receiving party(ies)

Name: Sony Electronics Inc., a Delaware corporation

Street Address: 1 Sony Drive
City: Park Ridge
State: New Jersey
Country: U.S.A.
Zip: 07656

PATENT REEL: 018235 FRAME: 0767

## ASSIGNMENT

WHEREAS, I, as a below named inventor, 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 SYSTEMS AND METHODS FOR PROVIDING MILLIMETER WAVE SIGNAL IMPROVEMENTS 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 WHEREAS, Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa, 6-Chome, Shinagawa-Ku, Tokyo, Japan, and Sony Electronics Inc., a Delaware corporation with offices at 1 Sony Drive, Park Ridge, New Jersey 07656 (hereinafter referenced as ASSIGNEES) is desirous of acquiring all interest in, to and under such 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 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 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;

And I hereby authorize and request my attorney(s) of record in this application to insert the execution date, serial number and filing date of this application in the spaces that follow: Serial Number: 11/488,538, Filing Date: 7/17/2006

This assignment is being executed on the date indicated below.

Robert Hardacker

Dated: <u>7/19/06</u>

Page 1 of 2

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Hirozuki mita	Dated: 26/07/2006
Hiroyuki Mita	
	Dated

Kenichi Kawasaki

Page 2 of 2

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	Dated:
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PATENT RECORDED: 08/28/2006 REEL: 018235 FRAME: 0770