

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Hideyuki MATSUMOTO</td><td>02/15/2008</td></tr><tr><td>Tetsuhiro FUTAMI</td><td>02/15/2008</td></tr><tr><td>Koji NANIWADA</td><td>02/18/2008</td></tr><tr><td>Yuichi HIRAYAMA</td><td>02/18/2008</td></tr></tbody></table>	Name	Execution Date	Hideyuki MATSUMOTO	02/15/2008	Tetsuhiro FUTAMI	02/15/2008	Koji NANIWADA	02/18/2008	Yuichi HIRAYAMA	02/18/2008	
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Koji NANIWADA	02/18/2008										
Yuichi HIRAYAMA	02/18/2008										
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PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12104817</td></tr></tbody></table>	Property Type	Number	Application Number:	12104817							
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Application Number:	12104817										
CORRESPONDENCE DATA											
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Total Attachments: 2 source=00541391#page1.tif											

OP \$40.00 12104817

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PATENT
REEL: 020819 FRAME: 0236

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

CARRIER SYNCHRONIZING CIRCUIT AND CARRIER SYNCHRONIZING METHOD

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 1-7-1 Konan, Minato-Ku, Tokyo, 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: Serial Number: _____, Filing Date: _____.

This assignment executed on the dates indicated below.

Hideyuki MATSUMOTO

Name of first or sole inventor
Tokyo, Japan

Execution date of U.S. Patent Application

Residence of first or sole inventor

Hideyuki Matsumoto
Signature of first or sole inventor

Feb. 15 2008
Date of this assignment

Tetsuhiro FUTAMI

Name of second inventor
Kanagawa, Japan

Execution date of U.S. Patent Application

Residence of second inventor

Tetsuhiro Futami
Signature of second inventor

Feb. 15 2008
Date of this assignment

Koji NANIWADA

Name of third inventor
Tokyo, Japan

Execution date of U.S. Patent Application

Residence of third inventor

Koji Naniwada
Signature of third inventor

Feb 18, 2008
Date of this assignment

ADDITIONAL INVENTOR(S) ON NEXT PAGE

Yuichi HIRAYAMA

Name of fourth inventor	Execution date of U.S. Patent Application
Chiba, Japan	
Residence of fourth inventor	
Yuichi Hirayama	Feb. 18, 2008
Signature of fourth inventor	Date of this assignment

Name of fifth inventor	Execution date of U.S. Patent Application
Residence of fifth inventor	
Signature of fifth inventor	Date of this assignment

Name of sixth inventor	Execution date of U.S. Patent Application
Residence of sixth inventor	
Signature of sixth inventor	Date of this assignment

Name of seventh inventor	Execution date of U.S. Patent Application
Residence of seventh inventor	
Signature of seventh inventor	Date of this assignment

Name of eighth inventor	Execution date of U.S. Patent Application
Residence of eighth inventor	
Signature of eighth inventor	Date of this assignment

Name of ninth inventor	Execution date of U.S. Patent Application
Residence of ninth inventor	
Signature of ninth inventor	Date of this assignment