

# PATENT ASSIGNMENT

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|                                                                                      |                            |
|--------------------------------------------------------------------------------------|----------------------------|
| SUBMISSION TYPE:                                                                     | NEW ASSIGNMENT             |
| NATURE OF CONVEYANCE:                                                                | ASSIGNMENT                 |
| CONVEYING PARTY DATA                                                                 |                            |
| Name                                                                                 | Execution Date             |
| Naoki MIYABAYASHI                                                                    | 02/03/2009                 |
| Yoshihiro YONEDA                                                                     | 02/03/2009                 |
| Isao SOMA                                                                            | 02/03/2009                 |
| Seiji KURODA                                                                         | 02/03/2009                 |
| Yasuharu ISHIKAWA                                                                    | 02/03/2009                 |
| Kazuo TAKADA                                                                         | 02/03/2009                 |
| Masahiro SUEYOSHI                                                                    | 02/04/2009                 |
| RECEIVING PARTY DATA                                                                 |                            |
| Name:                                                                                | SONY CORPORATION           |
| Street Address:                                                                      | 1-7-1 Konan, Minato-ku     |
| City:                                                                                | Tokyo                      |
| State/Country:                                                                       | JAPAN                      |
| Postal Code:                                                                         | 108-0075                   |
| PROPERTY NUMBERS Total: 1                                                            |                            |
| Property Type                                                                        | Number                     |
| Application Number:                                                                  | 12370994                   |
| CORRESPONDENCE DATA                                                                  |                            |
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| ATTORNEY DOCKET NUMBER:                                                              | 338398US8                  |

OP \$40.00 12370994

500781473

**PATENT**  
**REEL: 022256 FRAME: 0728**

NAME OF SUBMITTER:

Ismail Ahmadi

Total Attachments: 3

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**PATENT**

**REEL: 022256 FRAME: 0729**

Docket Number: \_\_\_\_\_

## 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  
COMMUNICATION DEVICE AND COMMUNICATION 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 referenced 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.

Naoki MIYABAYASHI

Name of first or sole inventor

Tokyo, Japan

Residence of first or sole inventor

Naoki Miyabayashi

Signature of first or sole inventor

February 3, 2009

~~January 3, 2009~~

Execution date of U.S. Patent Application  
February 3, 2009

February 3, 2009

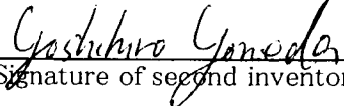
~~January 3, 2009~~

Date of this assignment  
February 3, 2009

Yoshihiro YONEDA  
Name of second inventor

February 3, 2009  
Execution date of U.S. Patent Application

Kanagawa, Japan  
Residence of second inventor

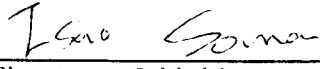
  
Signature of second inventor

February 3, 2009  
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Isao SOMA  
Name of third inventor

February 3, 2009  
Execution date of U.S. Patent Application

Saitama, Japan  
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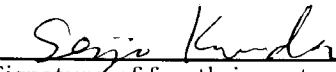
  
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Seiji KURODA  
Name of fourth inventor

February 3, 2009  
Execution date of U.S. Patent Application

Kanagawa, Japan  
Residence of fourth inventor

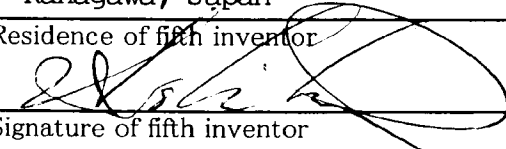
  
Signature of fourth inventor

February 3, 2009  
Date of this assignment

Yasuharu ISHIKAWA  
Name of fifth inventor

February 3, 2009  
Execution date of U.S. Patent Application

Kanagawa, Japan  
Residence of fifth inventor

  
Signature of fifth inventor

February 3, 2009  
Date of this assignment

|                             |                                           |
|-----------------------------|-------------------------------------------|
| Kazuo TAKADA                | February 3, 2009                          |
| Name of sixth inventor      | Execution date of U.S. Patent Application |
| Chiba, Japan                |                                           |
| Residence of sixth inventor |                                           |
| Kazuo Takada                | February 3, 2009                          |
| Signature of sixth inventor | Date of this assignment                   |

|                               |                                           |
|-------------------------------|-------------------------------------------|
| Masahiro SUEYOSHI             | February 4, 2009                          |
| Name of seventh inventor      | Execution date of U.S. Patent Application |
| Kanagawa, Japan               |                                           |
| Residence of seventh inventor |                                           |
| Masahiro Sueyoshi             | February 4, 2009                          |
| 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                   |