

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Hiroaki MUKAI</td> <td>01/18/2012</td> </tr> <tr> <td>Kaori MIE</td> <td>01/18/2012</td> </tr> <tr> <td>Koshi SUGIMURA</td> <td>01/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Hiroaki MUKAI	01/18/2012	Kaori MIE	01/18/2012	Koshi SUGIMURA	01/20/2012
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Hiroaki MUKAI	01/18/2012								
Kaori MIE	01/18/2012								
Koshi SUGIMURA	01/20/2012								
RECEIVING PARTY DATA									
Name:	Mitsubishi Electric Corporation								
Street Address:	7-3, Marunouchi 2-chome, Chiyoda-ku								
City:	Tokyo								
State/Country:	JAPAN								
Postal Code:	100-8310								
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>13391511</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13391511				
Property Type	Number								
Application Number:	13391511								
CORRESPONDENCE DATA									
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NAME OF SUBMITTER:	Genet Tesfaye								
Total Attachments: 1 source=394796USAssignment#page1.tif									

OP \$40.00 13391511

PATENT

60716-09-07
PMDA-09157-15

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by
(Insert Name(s) & Address(es) of ASSIGNEE(S))

Mitsubishi Electric Corporation

7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8310 Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
(Title of Invention)

PON SYSTEM, SUBSCRIBER-SIDE TERMINAL APPARATUS, STATION-SIDE TERMINAL APPARATUS, AND POWER SAVING METHOD

relating to International Patent Application PCT/JP2009/064672 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on _____; (Insert date of execution of application, if not concurrent)

(b) filed on _____

Serial No. _____

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

1)	<u>Hiroaki Mukai</u> (Signature)	<u>Hiroaki MUKAI</u> (Type Name)	<u>Jan. 18, 2012</u> (Date)
2)	<u>Kaori MIE</u> (Signature)	<u>Kaori MIE</u> (Type Name)	<u>Jan. 18, 2012</u> (Date)
3)	<u>Koshi Sugimura</u> (Signature)	<u>Koshi SUGIMURA</u> (Type Name)	<u>Jan. 20, 2012</u> (Date)
4)	_____ (Signature)	_____ (Type Name)	_____ (Date)
5)	_____ (Signature)	_____ (Type Name)	_____ (Date)
6)	_____ (Signature)	_____ (Type Name)	_____ (Date)

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