

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>Noboru KATO</td> <td>12/19/2011</td> </tr> <tr> <td>Katsumi TANIGUCHI</td> <td>12/19/2011</td> </tr> <tr> <td>Nobuo IKEMOTO</td> <td>12/22/2011</td> </tr> <tr> <td>Hiromi MURAYAMA</td> <td>12/19/2011</td> </tr> </tbody> </table>		Name	Execution Date	Noboru KATO	12/19/2011	Katsumi TANIGUCHI	12/19/2011	Nobuo IKEMOTO	12/22/2011	Hiromi MURAYAMA	12/19/2011
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Hiromi MURAYAMA	12/19/2011										
RECEIVING PARTY DATA											
Name:	Murata Manufacturing Co., Ltd.										
Street Address:	10-1 Higashikotari 1-chome										
City:	Nagaokakyo-shi, Kyoto-fu										
State/Country:	JAPAN										
Postal Code:	617-8555										
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>13339544</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13339544						
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Application Number:	13339544										
CORRESPONDENCE DATA											
Fax Number:	(571)313-7421										
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ATTORNEY DOCKET NUMBER:	36856.2366										
NAME OF SUBMITTER:	Satoko Sakiyama										
Total Attachments: 2 source=36856-2366-PTO-20111223-Signed_Assignment#page1.tif source=36856-2366-PTO-20111223-Signed_Assignment#page2.tif											

OP \$40.00 13339544

Attorney Docket No.: 36856.2366

ASSIGNMENT (WORLDWIDE)

WHEREAS We, **Noboru KATO**, **Katsumi TANIGUCHI**, **Nobuo IKEMOTO**, and **Hiromi MURAYAMA** (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **ANTENNA AND ANTENNA MODULE** for which application for Letters Patent of the United States has been

_____ executed on even date herewith;
 x _____ filed on 12/29/11 as Serial No. 13/339,544.

WHEREAS, **Murata Manufacturing Co., Ltd., 10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto-fu Japan 617-8555** (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor:

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to the said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted; and all Letters Patent and applications therefor through the world, including all the rights accruing by virtue of the International Convention for the Protection of Industrial Property.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants 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 as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Dated: December 19, 2011

Noboru Kato
 Noboru KATO

Dated: December 19, 2011

Katsumi Taniguchi
 Katsumi TANIGUCHI

Dated: December 22, 2011

x Nobuo Ikemoto
 Nobuo IKEMOTO

Dated: December 19, 2011

Hiromi Murayama
Hiromi MURAYAMA