501765986 12/22/2011

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Noboru KATO	12/12/2011
Katsumi TANIGUCHI	12/12/2011
Nobuo IKEMOTO	12/12/2011
Hiromi MURAYAMA	12/12/2011

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

Property Type	Number
Application Number:	13334462

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 36856.2362

NAME OF SUBMITTER: Michelle Rhodes

Total Attachments: 2

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PATENT REEL: 027433 FRAME: 0247 OP \$40,00 13334462

Attorney Docket No.: 36856.2362

<u> ASSIGNMENT (WO</u>RLDWIDE)

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 an even data berowith.

x ___ filed on __12/22/11 ___ as Serial No. _13/334,462

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: <u>Alexember</u>, 12, 2011 <u>Moboru Kato</u>

Noboru KATO

Dated: <u>December 12, 2011</u>

Dated: <u>December 12, 2011</u>

Dated: <u>December 12, 2011</u>

Nobus IKEMOTO

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Dated: <u>December /2, 201/</u>

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