

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>Kunihiro KOMAKI</td> <td>07/27/2012</td> </tr> <tr> <td>Masayuki ATOKAWA</td> <td>07/27/2012</td> </tr> <tr> <td>Masahiro IZAWA</td> <td>07/27/2012</td> </tr> <tr> <td>Yuji KAMINISHI</td> <td>07/31/2012</td> </tr> <tr> <td>Tsuyoshi MUKAI</td> <td>08/02/2012</td> </tr> </tbody> </table>		Name	Execution Date	Kunihiro KOMAKI	07/27/2012	Masayuki ATOKAWA	07/27/2012	Masahiro IZAWA	07/27/2012	Yuji KAMINISHI	07/31/2012	Tsuyoshi MUKAI	08/02/2012
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RECEIVING PARTY DATA													
Name:	MURATA MANUFACTURING CO., LTD.												
Street Address:	10-1, Higashikotari 1-chome												
Internal Address:	Nagaokakyo-shi												
City:	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>13584601</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13584601								
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Application Number:	13584601												
CORRESPONDENCE DATA													
Fax Number:	7033901277												
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Correspondent Name:	Studebaker & Brackett PC												
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ATTORNEY DOCKET NUMBER:	002000-106												

OP \$40.00 13584601

NAME OF SUBMITTER:

Tim L. Brackett, Jr.

Total Attachments: 2

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STUDEBAKER & BRACKETT PC

Attorney Docket No. 002000-106**ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT**

WHEREAS Kunihiro KOMAKI, Masayuki ATOKAWA, Masahiro IZAWA, Yuji KAMINISHI and Tsuyoshi MUKAI, hereinafter referred to collectively as the assignor, has invented a certain improvement relating to:

ANTENNA AND WIRELESS COMMUNICATION DEVICE

the inventor(s) declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

said application having been filed in the United States Patent and Trademark Office on, _____, authorization being hereby given to the practitioners associated with the STUDEBAKER & BRACKETT PC CUSTOMER NUMBER 78198, to insert here in parentheses (Application Serial No. _____) the application serial number of said application when known;

said application having been filed under the Patent Cooperation Treaty on _____, as Serial No. _____, the United States of America being designated.

AND WHEREAS MURATA MANUFACTURING CO., LTD. of 10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto-fu 617-8555, JAPAN, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

The undersigned hereby grant(s) the law firm of STUDEBAKER & BRACKETT PC the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

This Assignment has been executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: Jul 27, 2012Signature: Kunihiro KomakiName: Kunihiro KOMAKI

Date: July 27, 2012

Signature: Masayuki Atokawa

Name: Masayuki ATOKAWA

Date: July 27, 2012

Signature: Masahiro Izawa

Name: Masahiro IZAWA

Date: July 31, 2012

Signature: Yuji Kaminishi

Name: Yuji KAMINISHI

Date: August 2, 2012

Signature: Tsuyoshi Mukai

Name: Tsuyoshi MUKAI