

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>Kaoru SUDO</td> <td>04/13/2012</td> </tr> <tr> <td>Hirofuka FUJII</td> <td>04/16/2012</td> </tr> <tr> <td>Eiichi KOBAYASHI</td> <td>04/23/2012</td> </tr> <tr> <td>Toshiro HIRATSUKA</td> <td>04/13/2012</td> </tr> </tbody> </table>		Name	Execution Date	Kaoru SUDO	04/13/2012	Hirofuka FUJII	04/16/2012	Eiichi KOBAYASHI	04/23/2012	Toshiro HIRATSUKA	04/13/2012		
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CORRESPONDENCE DATA													
<p>Fax Number: (703)390-1277 Phone: 703 390 9051 Email: dave.washington@sbpatentlaw.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Studebaker & Brackett PC Address Line 1: 12700 Sunrise Valley Drive Address Line 2: Suite 102 Address Line 4: Reston, VIRGINIA 20191</p>													
ATTORNEY DOCKET NUMBER:	002000-97												
NAME OF SUBMITTER:	Donald R. Studebaker												
Total Attachments: 1 source=ASN#page1.tif													

OP \$40.00 13415298

PATENT

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Kaoru SUDO, Hirotaka FUJII, Eiichi KOBAYASHI and Toshiro HIRATSUKA hereinafter referred to collectively as the assignor, has invented a certain improvement relating to:

HORIZONTAL RADIATION ANTENNA

[] 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;

[X] said application having been filed in the United States Patent and Trademark Office on, March 8, 2012, authorization being hereby given to the practitioners associated with the STUDEBAKER & BRACKETT PC CUSTOMER NUMBER 78198, to insert here in parentheses (Application Serial No. 13/415,298) 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). April

Date: 13, March, 2012
13/4/12 KS

Signature: Kaoru Sudo
Name: Kaoru SUDO

Date: 16, April, 2012

Signature: Hirotaka FUJII
Name: Hirotaka FUJII

Date: 23, April, 2012

Signature: Eiichi Kobayashi
Name: Eiichi KOBAYASHI

Date: 13, April, 2012

Signature: Toshiro Hiratsuka
Name: Toshiro HIRATSUKA

PATENT