

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT3164159

|                                                                                                                                                                                                 |                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                                                                                            |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                                                                                                |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                                                                           |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>                                                                                     |
| ANSSI BLOMQVIST                                                                                                                                                                                 | 11/20/2014                                                                                                |
| VILLE-PEKKA RYTKONEN                                                                                                                                                                            | 11/19/2014                                                                                                |
| TOMMI PIIRAINEN                                                                                                                                                                                 | 11/19/2014                                                                                                |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                                                                                           |
| <b>Name:</b>                                                                                                                                                                                    | MURATA MANUFACTURING CO., LTD.                                                                            |
| <b>Street Address:</b>                                                                                                                                                                          | 10-1, HIGASHIKOTARI 1-CHOME                                                                               |
| <b>City:</b>                                                                                                                                                                                    | NAGAOAKAKYO-SHI, KYOTO                                                                                    |
| <b>State/Country:</b>                                                                                                                                                                           | JAPAN                                                                                                     |
| <b>Postal Code:</b>                                                                                                                                                                             | 617-8555                                                                                                  |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                                                                                           |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                                                                                             |
| Application Number:                                                                                                                                                                             | 14525272                                                                                                  |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                                                                                           |
| <b>Fax Number:</b>                                                                                                                                                                              | (703)720-7801                                                                                             |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                                                                                           |
| <b>Phone:</b>                                                                                                                                                                                   | 703-720-7800                                                                                              |
| <b>Email:</b>                                                                                                                                                                                   | ipgeneraltyc@squiresanders.com,<br>douglas.goldhush@squiresanders.com,<br>linda.ritter@squiresanders.com, |
| <b>Correspondent Name:</b>                                                                                                                                                                      | SQUIRE PATTON BOGGS(US) LLP                                                                               |
| <b>Address Line 1:</b>                                                                                                                                                                          | 8000 TOWERS CRESCENT DRIVE                                                                                |
| <b>Address Line 2:</b>                                                                                                                                                                          | 14TH FLOOR                                                                                                |
| <b>Address Line 4:</b>                                                                                                                                                                          | TYSONS CORNER, VIRGINIA 22182-6212                                                                        |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 059244.00073                                                                                              |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | DOUGLAS H. GOLDHUSH                                                                                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Douglas H. Goldhush/                                                                                     |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 12/29/2014                                                                                                |
| <b>Total Attachments: 1</b>                                                                                                                                                                     |                                                                                                           |
| source=059244_00073_Assignment#page1.tif                                                                                                                                                        |                                                                                                           |

## U.S. ASSIGNMENT

For good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

[Insert  
ASSIGNEE's  
Name(s)  
Address(es)]

MURATA MANUFACTURING CO., LTD.  
10-1, Higashikotari 1-chome  
Nagaokakyo-shi 617-8555 Kyoto, JAPAN

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

[Title of  
Invention]

IMPROVED QUADRATURE COMPENSATION

[\*If the assignment  
is being filed  
after the filing of the  
application, this  
section must be  
completed]

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

\*filed on October 28, 2014, Serial No. 14/525,272

(Squire Patton Boggs (US) LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

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

[Signature(s)  
of Assignor(s)]

  
(SIGNATURE)

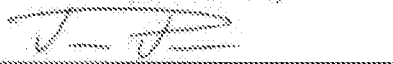
Anssi BLOMQUIST  
(TYPE NAME)

28/11-2014  
(DATE)

  
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Ville-Pekka RYTKÖNEN  
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19.11.2014  
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(DATE)

(SIGNATURE)

(TYPE NAME)

(DATE)

NO LEGALIZATION REQUIRED

PATENT