

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Akira MORI</td> <td>10/12/2010</td> </tr> <tr> <td>Yoshitaka KATO</td> <td>10/14/2010</td> </tr> <tr> <td>Satoshi ICHIHARA</td> <td>10/15/2010</td> </tr> </tbody> </table>		Name	Execution Date	Akira MORI	10/12/2010	Yoshitaka KATO	10/14/2010	Satoshi ICHIHARA	10/15/2010		
Name	Execution Date										
Akira MORI	10/12/2010										
Yoshitaka KATO	10/14/2010										
Satoshi ICHIHARA	10/15/2010										
<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Murata Manufacturing Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>10-1 Higashikotari 1-chome</td> </tr> <tr> <td>City:</td> <td>Nagaokakyo-shi, Kyoto-fu</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>617-8555</td> </tr> </table>		Name:	Murata Manufacturing Co., Ltd.	Street Address:	10-1 Higashikotari 1-chome	City:	Nagaokakyo-shi, Kyoto-fu	State/Country:	JAPAN	Postal Code:	617-8555
Name:	Murata Manufacturing Co., Ltd.										
Street Address:	10-1 Higashikotari 1-chome										
City:	Nagaokakyo-shi, Kyoto-fu										
State/Country:	JAPAN										
Postal Code:	617-8555										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12944045</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12944045						
Property Type	Number										
Application Number:	12944045										
<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (571)313-7421  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (571) 313-7440</p> <p>Email: mflorimonte@kbiplaw.com</p> <p>Correspondent Name: Keating &amp; Bennett LLP</p> <p>Address Line 1: 1800 Alexander Bell Drive</p> <p>Address Line 2: Suite 200</p> <p>Address Line 4: Reston, VIRGINIA 20191</p>											
ATTORNEY DOCKET NUMBER:	36856.2117										
NAME OF SUBMITTER:	Maura Florimonte										
<p>Total Attachments: 1</p> <p>source=36856-2117-PTO-20101111-Assignment#page1.tif</p>											

OP \$40.00 12944045

**PATENT**

**501347662**

**REEL: 025348 FRAME: 0546**

Attorney Docket No.: 36856.2117

**ASSIGNMENT (WORLDWIDE)**

WHEREAS We, **Akira MORI, Yoshitaka KATO and Satoshi ICHIHARA** (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled **EXTERNAL-FORCE DETECTING APPARATUS AND METHOD OF DETECTING LINE BREAK** for which application for Letters Patent of the United States has been

\_\_\_\_\_ executed on even date herewith;  
  X   filed on 11-11-10 as Serial No. 12/944,045.

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: October 12, 2010

Akira Mori  
Akira MORI

Dated: October 14, 2010

Yoshitaka Kato  
Yoshitaka KATO

Dated: October 15, 2010

Satoshi Ichihara  
Satoshi ICHIHARA