

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	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>Masashi NUMATA</td> <td>08/02/2010</td> </tr> <tr> <td>Kiyoshi ARATAKE</td> <td>08/03/2010</td> </tr> <tr> <td>Osamu ONITSUKA</td> <td>08/02/2010</td> </tr> <tr> <td>Junya FUKADA</td> <td>08/02/2010</td> </tr> <tr> <td>Kazuyoshi SUGAMA</td> <td>08/02/2010</td> </tr> </tbody> </table>		Name	Execution Date	Masashi NUMATA	08/02/2010	Kiyoshi ARATAKE	08/03/2010	Osamu ONITSUKA	08/02/2010	Junya FUKADA	08/02/2010	Kazuyoshi SUGAMA	08/02/2010
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<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>Seiko Instruments Inc.</td> </tr> <tr> <td><b>Street Address:</b></td> <td>8, Nakase 1-chome, Mihama-ku,</td> </tr> <tr> <td><b>City:</b></td> <td>Chiba-shi, Chiba</td> </tr> <tr> <td><b>State/Country:</b></td> <td>JAPAN</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>261-8507</td> </tr> </table>		<b>Name:</b>	Seiko Instruments Inc.	<b>Street Address:</b>	8, Nakase 1-chome, Mihama-ku,	<b>City:</b>	Chiba-shi, Chiba	<b>State/Country:</b>	JAPAN	<b>Postal Code:</b>	261-8507		
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<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (312)321-4299</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 312-321-4200</p> <p>Email: kewing@usebrinks.com</p> <p>Correspondent Name: BRINKS HOFER GILSON &amp; LIONE</p> <p>Address Line 1: 455 N. Cityfront Plaza Dr., Ste. 3600</p> <p>Address Line 2: P.O. Box 10395</p> <p>Address Line 4: Chicago, ILLINOIS 60611</p>													
<b>ATTORNEY DOCKET NUMBER:</b>	11106-330												
<b>NAME OF SUBMITTER:</b>	Tadashi Horie, Reg. No. 40,347												

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**PATENT**  
**REEL: 024842 FRAME: 0718**

Total Attachments: 3

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ASSIGNMENT

WHEREAS, Masashi NUMATA, Kiyoshi ARATAKE, Osamu ONITSUKA, Junya FUKUDA, and Kazuyoshi SUGAMA, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled PIEZOELECTRIC VIBRATOR MANUFACTURING METHOD, FIXING JIG, PIEZOELECTRIC VIBRATOR, OSCILLATOR, ELECTRONIC DEVICE, AND RADIO-CONTROLLED WATCH, executed by Assignors on the same date as, or on a date prior to, this Assignment;

WHEREAS, Seiko Instruments Inc., a corporation organized and existing under the laws of Japan, having a place of business at 8, Nakase 1-chome, Mihama-ku, Chiba-shi, Chiba, Japan 261-8507, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in

vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATE: 08/02/2010 Masashi Numata  
Masashi NUMATA

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: 08/02/2010 Kiyoshi Aratake  
Kiyoshi ARATAKE

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: 08/02/2010 Osamu Onitsuka  
Osamu ONITSUKA

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: 08/02/2010 Junya Fukuda  
Junya FUKUDA

WITNESSED:

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: 08/02/2010 K. Sugama

WITNESSED: \_\_\_\_\_  
Kazuyoshi SUGAMA

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_