### PATENT ASSIGNMENT COVER SHEET

**502562041**  
**11/08/2013**  
**PATENT ASSIGNMENT COVER SHEET**

**Electronic Version v1.1**  
**Stylesheet Version v1.2**  
**EPAS ID: PAT2607780**

### SUBMISSION TYPE:
- NEW ASSIGNMENT

### NATURE OF CONVEYANCE:
- ASSIGNMENT

### CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROHM CO., LTD.</td>
<td>10/17/2013</td>
</tr>
<tr>
<td>HITACHI, LTD.</td>
<td>10/17/2013</td>
</tr>
<tr>
<td>PIONEER CORPORATION</td>
<td>10/25/2013</td>
</tr>
</tbody>
</table>

### RECEIVING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>MITUBISHI CHEMICAL CORPORATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address</td>
<td>1-1, MARUNOUCHI 1-CHOME</td>
</tr>
<tr>
<td>Internal Address</td>
<td>CHIYODA-KU</td>
</tr>
<tr>
<td>City</td>
<td>TOKYO</td>
</tr>
<tr>
<td>State/Country</td>
<td>JAPAN</td>
</tr>
</tbody>
</table>

**PROPERTY NUMBERS Total: 1**

<table>
<thead>
<tr>
<th>Property Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patent Number</td>
<td>7691473</td>
</tr>
</tbody>
</table>

### CORRESPONDENCE DATA

- **Fax Number:** (703)413-2220  
- **Phone:** (703) 413-3000  
- **Email:** khudson@oblon.com  

*Correspondence will be sent via US Mail when the email attempt is unsuccessful.*

- Correspondent Name: OBLON, SPIVAK, ET AL.  
- Address Line 1: 1940 DUKE STREET  
- Address Line 4: ALEXANDRIA, VIRGINIA 22314

### ATTORNEY DOCKET NUMBER:
- 333289US0XDIV

### NAME OF SUBMITTER:
- KAREN L. HUDSON

### Signature:
- /Karen L. Hudson/

### Date:
- 11/08/2013

---

**PATENT**

**502562041**  
**REEL: 031565 FRAME: 0721**
ASSIGNMENT

WHEREAS, Rohm Co., Ltd. having a place of business at 21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto-shi, Kyoto, Japan, Hitachi, Ltd. having a place of business at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan, and Pioneer Corporation having a place of business at 1-1, Shin-Ogura, Saiwai-ku, Kawasaki-shi, Kanagawa, Japan, all corporations organized and existing under the laws of the Country of Japan, are joint owners with Mitsubishi Chemical Corporation, by assignment, of the Letters Patent of the United States of America No. 7,691,473 issued on April 6, 2010; and

WHEREAS, Mitsubishi Chemical Corporation having a place of business at 1-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan; corporation organized and existing under the laws of the Country of Japan (hereinafter referred to collectively as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to said Letters Patent and the invention described therein;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS ($5.00) and other valuable consideration, the receipt of which is hereby acknowledged, Rohm Co., Ltd., Hitachi, Ltd., and Pioneer Corporation by these presents do sell, assign, and transfer unto ASSIGNEE its entire right, title and interest for the territory of the United States of America, in and to the aforesaid Letters Patent and the invention described therein, and any reissue or reissues of said Letters Patent to the full end of the term for which said Letters Patent have been granted or reissues may be granted, said invention and Letters patent to be held and enjoyed by the ASSIGNEE for the use and behoof of their successors, assigns or other legal representatives, and for claims for damage by reason of infringement past and present, as fully and entirely as the same would have
been held by Rohm Co., Ltd., Hitachi, Ltd., and Pioneer Corporation had this Assignment
and sale not been made.

IN TESTIMONY WHEREOF, Rohm Co., Ltd., Hitachi, Ltd., and Pioneer
Corporation have caused these presents to be signed by its officer thereunto duly
authorized.

Date: Oct. 17, 2013

Rohm Co., Ltd.

Takaaki NAGURA
General Manager,
Intellectual Property Div.
Date: **October 17, 2013**

HITACHI, LTD.

[Signature]

Takashi SUZUKI
Corporate Officer
General Manager
Intellectual Property Division
(Authorized Signing Officer)
Date: October 25, 2013

Pioneer Corporation

Naoki Aoyama
General Manager
Intellectual Property Division
Legal & Intellectual Property Division