# PATENT ASSIGNMENT

## 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>Yasuharu ONISHI</td>
<td>05/02/2013</td>
</tr>
<tr>
<td>Yuichiro KISHINAMI</td>
<td>05/02/2013</td>
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<tr>
<td>Shigeo SATOU</td>
<td>05/02/2013</td>
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<tr>
<td>Jun KURODA</td>
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<td>Motoyoshi KOMODA</td>
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<tr>
<td>Nobuhiro KAWASHIMA</td>
<td>05/02/2013</td>
</tr>
<tr>
<td>Tatsuya UCHIKAWA</td>
<td>05/02/2013</td>
</tr>
</tbody>
</table>

### RECEIVING PARTY DATA

| Name: NEC CASIO MOBILE COMMUNICATIONS, LTD. |
| Street Address: 1753, Shimonumabe, Nakahara-ku, Nawasaki-shi |
| City: Kanagawa |
| State/Country: JAPAN |
| Postal Code: 211-8666 |

### PROPERTY NUMBERS Total: 1

<table>
<thead>
<tr>
<th>Property Type</th>
<th>Number</th>
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<tr>
<td>Application Number:</td>
<td>13990904</td>
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</tbody>
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### CORRESPONDENCE DATA

Fax Number: 7036850573  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

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Email: Iconley@young-thompson.com  
Correspondent Name: YOUNG & THOMPSON  
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Address Line 4: Alexandria, VIRGINIA 22314
<table>
<thead>
<tr>
<th>ATTORNEY DOCKET NUMBER:</th>
<th>8074-1418</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAME OF SUBMITTER:</td>
<td>Eric Jensen</td>
</tr>
<tr>
<td>Signature:</td>
<td>/Eric Jensen/</td>
</tr>
<tr>
<td>Date:</td>
<td>05/31/2013</td>
</tr>
</tbody>
</table>

Total Attachments: 2
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ASSIGNMENT

WHEREAS,

Yasuhiro ONISHI, Yuichiro KISHINAMI, Shigeo SATOU, Jun KURODA,
Yukio MURATA, Motoyoshi KOMODA, Nobuhiro KAWASHIMA,
and Tatsuya UCHIKAWA all of Kanagawa, Japan

hereafter referred to as "applicant(s)", have invented certain new and useful improvements in

OSCI llATOR DEVICE AND ELECTRONIC APPARATUS

filed May 31, 2013; Application No. 13/990,904
for which an application for a United States patent was executed currently herewith,

WHEREAS, NEC CASIO MOBILE COMMUNICATIONS, LTD., whose address is, 1753,
Shimonumab e, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8666 Japan, hereinafter referred to
as "assignee(s)", are desirous of acquiring the entire right, title and interest in and to the same,

NOW, THEREFORE, in consideration of the sum of Ten Dollars ($10.00), the receipt
whereof is acknowledged, and other good and valuable consideration, applicant(s), by these
presents, do(es) hereby sell, assign and transfer unto said assignee(s) the full and exclusive right to
the said invention in the United States and the entire right, title and interest in and to any and all
patents which may be granted therefore in the United States, for its sole use and behoof, and for
the use and behoof of its legal representatives, to the full end of the term for which said patents
may be granted, as fully and entirely as the same would have been held by applicant(s) had this
assignment and sale not been made.

Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and
Trademarks to issue said United States patents to said assignee(s).

Date May 2, 2013
Yasuhiro ONISHI
(signature)

Date May 2, 2013
Yuichiro KISHINAMI
(signature)

Date May 2, 2013
Shigeo SATOU
(signature)

Date May 2, 2013
Jun KURODA
(signature)

Date May 2, 2013
Yukio MURATA
(signature)

Date May 2, 2013
Motoyoshi KOMODA
(signature)
Date May 2, 2013.

Date May 2, 2013.

WITNESS(ES)
Date May 2, 2013.
Date May 2, 2013.

(signature) Nobuhiro KAWASHIMA
(signature) Tatsuya UCHIKAWA

(signature) [Signature]
(signature) [Signature]