**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1

### 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>Jacobus C. Haartsen</td>
<td>05/28/2008</td>
</tr>
<tr>
<td>William O. Camp Jr.</td>
<td>05/29/2008</td>
</tr>
<tr>
<td>Phillip Marc Johnson</td>
<td>05/28/2008</td>
</tr>
<tr>
<td>Norbert Donald Ingram</td>
<td>05/28/2008</td>
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</tbody>
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### RECEIVING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Sony Ericsson Mobile Communications AB</th>
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</thead>
<tbody>
<tr>
<td>Street Address</td>
<td>Nya Vattenarten</td>
</tr>
<tr>
<td>City</td>
<td>Lund</td>
</tr>
<tr>
<td>State/Country</td>
<td>SWEDEN</td>
</tr>
<tr>
<td>Postal Code</td>
<td>S-221 88</td>
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### PROPERTY NUMBERS Total: 1

<table>
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<tr>
<th>Property Type</th>
<th>Number</th>
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<tbody>
<tr>
<td>Application Number</td>
<td>12130249</td>
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</tbody>
</table>

### CORRESPONDENCE DATA

Fax Number: (703)519-9958  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Email: wgrumer@dcpatent.com  
Correspondent Name: Ditthavong Mori & Steiner, P.C.

Address Line 1: 918 Prince Street  
Address Line 4: Alexandria, VIRGINIA 22314

### ATTORNEY DOCKET NUMBER:  
01210-1007

### NAME OF SUBMITTER:  
Phouphanomketh Ditthavong

Total Attachments: 10  
source=PU08_0135US2_01210-1007_exeassign#page1.tif  
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ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned, Jacobus C. HAARTSEN, William O. CAMP, Jr., Phillip Marc JOHNSON, and Norbert Donald INGRAM, hereby sell, assign, and transfer to Sony Ericsson Mobile Communications AB, a foreign corporation having a principal place of business at Nya Vattentornet, S-221 88 Lund, Sweden (“Assignee”), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent, entitled:

SYSTEM AND METHOD FOR DETERMINING POSITION INFORMATION VIA MODULATED LIGHT

☐ which has been executed by the undersigned concurrently herewith,
☐ which was filed on ______________ and assigned Serial No. __________

and in to said application and all divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all assignments and powers of attorney; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.
Each Inventor: Please Sign and Date Below:

May 28, 2008
Date

Name: Jacobus C. HAARTSEN

Roelof Mink
Witness: (Print)
29-05-2008
Date

Margaret de Rou
Witness: (Print)
29-05-2008
Date
Attorney Docket No.: 01210-1007
Client Docket No.: PU08 0135US2

Each Inventor: Please Sign and Date Below:

_________________________  ______________________________
Date                                  Name: William O. CAMP, Jr.

STATE OF                              COUNTY OF _______________ ) SS:

On ______________________________ before me, ____________________________________,
personally appeared William O. CAMP, Jr., personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

_____________________________ (signature of Notary)                     (seal of Notary)

My commission expires ________________

3/5
Each Inventor: Please Sign and Date Below:

Date, 20

Name: Phillip Marc JOHNSON

STATE OF )
COUNTY OF _________ ) SS:

On ____________________________________________, personally appeared Phillip Marc JOHNSON, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

______________________________ (signature of Notary)   (seal of Notary)

My commission expires __________
Attorney Docket No.: 01210-1007
Client Docket No.: PU08 0135US2

Each Inventor: Please Sign and Date Below:

____________________, 20___
Date

Name: Norbert Donald INGRAM

STATE OF ____
COUNTY OF _________) SS:

On ______________________ before me, ________________________________________________, personally appeared Norbert Donald INGRAM, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

__________________________ (signature of Notary)  (seal of Notary)

My commission expires ________________
ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned, Jacobus C. HAARTSEN, William O. CAMP, Jr., Phillip Marc JOHNSON, and Norbert Donald INGRAM, hereby sell, assign, and transfer to Sony Ericsson Mobile Communications AB, a foreign corporation having a principal place of business at Nya Vattentornet, S-221 88 Lund, Sweden ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent, entitled:

SYSTEM AND METHOD FOR DETERMINING POSITION INFORMATION VIA MODULATED LIGHT

☐ which has been executed by the undersigned concurrently herewith,
☐ which was filed on ________________ and assigned Serial No. ____________

and in to said application and all divisional, continuing, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all assignments and powers of attorney; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.
Each Inventor: Please Sign and Date Below:

____________________  20____________________
Date                                           Name: Jacobus C. HAARTSEN

Witness: (Print)   ________________________
Date

Witness: (Print)   ________________________
Date
Each Inventor: Please Sign and Date Below:

29 May, 2008
Date

William O. Camp, Jr.
Name: William O. Camp, Jr.

STATE OF NC
COUNTY OF WAKE SS:

On May 29, 2008 before me, Cassandra S. Mitchell, personally appeared William O. Camp, Jr., personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Cassandra S. Mitchell
Notary Public
Durham County, North Carolina
My Commission expires on: 03/04/2012

(signature of Notary)
(seal of Notary)

My commission expires 03/04/2012
Each Inventor: Please Sign and Date Below:

28 May 2008
Date

Name: Phillip Marc JOHNSON

STATE OF North Carolina
COUNTY OF Wake SS:

On May 28th 2008 before me, Julie C. Davis-Conner, personally appeared Phillip Marc JOHNSON, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Julie C Davis-Conner (signature of Notary) (seal of Notary)

My commission expires 9-9-2012
Each Inventor: Please Sign and Date Below:

May 28, 2008  Norbert Donald Ingram  
Date  Name: Norbert Donald INGRAM

STATE OF NORTH CAROLINA  
COUNTY OF WAKE SS:

On May 28, 2008 before me, Donna F. Lewis, personally appeared Norbert Donald INGRAM, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to within the instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Donna F. Lewis (signature of Notary)  
My commission expires 1-19-2013  
(seal of Notary)