

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>WATARU OUCHI</td> <td>11/15/2013</td> </tr> <tr> <td>SHOICHI SUZUKI</td> <td>11/15/2013</td> </tr> <tr> <td>TATSUSHI AIBA</td> <td>11/15/2013</td> </tr> <tr> <td>DAICHIRO NAKASHIMA</td> <td>11/15/2013</td> </tr> </tbody> </table>		Name	Execution Date	WATARU OUCHI	11/15/2013	SHOICHI SUZUKI	11/15/2013	TATSUSHI AIBA	11/15/2013	DAICHIRO NAKASHIMA	11/15/2013
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<table border="1"> <tr> <td>Name:</td> <td>SHARP KABUSHIKI KAISHA</td> </tr> <tr> <td>Street Address:</td> <td>22-22, NAGAIKE-CHO, ABENO-KU</td> </tr> <tr> <td>City:</td> <td>OSAKA-SHI, OSAKA</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>545-8522</td> </tr> </table>		Name:	SHARP KABUSHIKI KAISHA	Street Address:	22-22, NAGAIKE-CHO, ABENO-KU	City:	OSAKA-SHI, OSAKA	State/Country:	JAPAN	Postal Code:	545-8522
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14130666</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14130666						
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CORRESPONDENCE DATA											
<p>Fax Number: (703)205-8050          Phone: 703.205.8000          Email: kara.e.crestwell@bskb.com, mailroom@bskb.com  <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>          Correspondent Name: BIRCH STEWART KOLACH &amp; BIRCH, LLP          Address Line 1: P.O. BOX 747          Address Line 4: FALLS CHURCH, VIRGINIA 22042</p>											
NAME OF SUBMITTER:	KARA E CRESTWELL										
Signature:	/kara e crestwell/										
Date:	01/03/2014										
Total Attachments: 2 source=2014_01_03_ASSIGNMENT_5132-0266PUS1#page1.tif source=2014_01_03_ASSIGNMENT_5132-0266PUS1#page2.tif											

## BIRCH, STEWART, KOLASCH &amp; BIRCH, LLP

UNITED STATES PATENT RIGHTS, OR  
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

## ASSIGNMENT

Application No. 14/130,666Filed January 3, 2014

Insert Name(s)  
of Inventor(s)

\*\*\* (Given Name FAMILY NAME (ALL CAPS)) \*\*\*

WHEREAS,

Wataru OUCHI, S hoichi S UZUKI, Tatsushi AIBA,  
Daiichiro NAKASHIMA

Insert Title  
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in

COMMUNICATION SYSTEM BASE STATION APPARATUS, MOBILE STATION APPARATUS, AND  
COMMUNICATION METHOD

for which an application for Letters Patent of the United States of America has been executed by the undersigned  
(except in the case of a provisional application).

Insert Date  
of Signing of  
Application

on November 15, 2013; and

Insert Name  
of Assignee

WHEREAS, Sharp Kabushiki Kaisha

Insert Address  
of Assignee

of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of  
acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be  
granted therefor in the United States of America and

CHECK BOX  
IF APPROPRIATE

☐ in any foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the  
receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold,  
assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and  
exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and  
the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United  
States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all  
foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for  
which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date <u>November 15, 2013</u>	Name of Inventor <u>Wataru Ouchi</u> (signature) Wataru OUCHI
Date <u>November 15, 2013</u>	Name of Inventor <u>Shoichi Suzuki</u> (signature) Shoichi SUZUKI
Date <u>November 15, 2013</u>	Name of Inventor <u>Tatsushi Aiba</u> (signature) Tatsushi AIBA
Date <u>November 15, 2013</u>	Name of Inventor <u>Daiichiro Nakashima</u> (signature) Daiichiro NAKASHIMA
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)