501974647 06/29/2012

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
Shoichi SUZUKI	05/30/2012
Shohei YAMADA	06/06/2012

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13458177

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ATTORNEY DOCKET NUMBER: 5132-0212PUS1

NAME OF SUBMITTER: Charles Gorenstein

Total Attachments: 2

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> PATENT REEL: 028473 FRAME: 0202

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ATTORNEY DOCKET NO. 5132-0212PUS1

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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

ASSIGNMENT

	Application No. <u>13/458,177</u>	Filed <u>April 27, 2012</u>		
Insert Name(s) of Inventor(s)	***(Given Name FAMILY NAME (ALL CAI WHEREAS,	PS))***		
	Shoichi SUZUKI, Shohei YAMADA			
	(hereinafter designated as the undersigned) has (have) invented certain	new and useful improvements in		
Insert Title of Invention	WIRELESS COMMUNICATION SYSTEM, BASE STATION APPARATUS, MOBILE STATION APPARATUS, WIRELESS COMMUNICATION METHOD, CONTROL PROGRAM FOR MOBILE STATION APPARATUS, AND INTEGRATED CIRCU FOR BASE STATION APPARATUS AND MOBILE STATION APPARATUS			
	for which an application for Letters Patent of the United States of Ar (except in the case of a provisional application).	merica has been executed by the undersigned		
Insert Date of Signing of Application	on May 30, 2012 and June 6, 2012	; and		
Insert Name of Assignee	WHEREAS, Sharp Kabushiki Kaisha			
Insert Address of Assignee	of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osak	ka 545–8522 Japan		
CHECK BOX	its heirs, successors, legal representatives and assigns (hereinafter acquiring the entire right, title and interest in and to said invention ar granted therefor in the United States of America and in any foreign countries.	designated as the Assignce) is desirous of nd in and to any Letters Patent(s) that may be		
	NOW, THEREFORE, in consideration of the sum of Ten Dollars (I receipt of which is hereby acknowledged, and other good and valuable cassigned and transferred, and by these presents does sell, assign an exclusive right to the said invention in the United States of America, its the entire right, title and interest in and to any and all Letters Patent(s) States of America, its territories, dependencies and possessions, and if foreign countries;	consideration, the undersigned has (have) sold, nd transfer unto said Assignee the full and s territories, dependencies and possessions and) which may be granted therefor in the United		
	and to any and all divisions, reissues, continuations, conversions and exwhich the same may be granted.	xtensions thereof for the full term or terms for		

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ATTORNEY DOCKET NO. 5132-0212PUS1

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 Assignce, 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, Kołasch & 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	May, 30, 2012	Name of I	nventor <u>Shaichi Luzu</u> (signature) Shoichi SUZUK !	ki
Date	Tune 6,2012	Name of I	nventor <u>Shoher Jamada</u> (signature) Shohei YAMADA	
Date	,	Name of I	nventor(signature)	
Date		Name of I	nventor(signature)	<u> </u>
Date		Name of I	nventor(signature)	·
Date	,	Name of I	nventor(signature)	
Page 2 of	2			October 2005

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