502745512 03/31/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WATARU OUCHI	03/17/2014
KIMIHIKO IMAMURA	03/17/2014
DAIICHIRO NAKASHIMA	03/17/2014
TOSHIZO NOGAMI	03/17/2014
KAZUYUKI SHIMEZAWA	03/17/2014
SHOICHI SUZUKI	03/17/2014
YASUYUKI KATO	03/17/2014
KATSUNARI UEMURA	03/17/2014

RECEIVING PARTY DATA

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State/Country:	JAPAN	
Postal Code:	545-8522	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14348270

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ATTORNEY DOCKET NUMBER: 70404.1740/FU

NAME OF SUBMITTER: SATOKO SAKIYAMA

SIGNATURE: /AMD/ss

502745512 PATENT REEL: 032558 FRAME: 0446

DATE SIGNED: 03/28/2014

Total Attachments: 2
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PATENT REEL: 032558 FRAME: 0447

Attorney Docket No.: 70404.

ASSIGNMENT (WORLDWIDE)

WHEREAS, I, Wataru OUCHI, Kimihiko IMAMURA, Daiichiro NAKASHIMA, Toshizo NOGAMI, Kazuyuki SHIMEZAWA, Shoichi SUZUKI, Yasuyuki KATO, and Katsunari UEMURA (hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled

TERMINAL APPARATS, COMMUNICATION SYSTEM, COMMUNICATION METHOD,			
AND BASE STATION APPARATUS			
for which ap	plication for Letters Patent of the United	l States has been	
<u>X</u>	executed on even date herewith;		
	filed on	_ as Serial No	
shi, Osaka	REAS, Sharp Kabushiki Kaisha, 22-2 545-8522, Japan (hereinafter referred to e entire interest in, to and under said inv	o as ASSIGNEE), is desirous of	

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to the said invention and all Letters Patent of the United States to be obtained therefore on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted; and all Letters Patent and applications therefore through the world, including all the rights accruing by virtue of the International Convention for the Protection of Industrial Property.

Patent to be obtained therefore:

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Dated: 17, 2014	Wataru Olechi Wataru OUCHI
	Wataru OUCHI
Dated: March, 17, 2019	Kimiliko amamura
	Kimihiko IMAMURA
Dated: March 19, 2014	Daiichiro Nakashima
	Daiichiro NAKASHIMA
Dated: March 17, 2014	Toshiza NOGAMI
,	Toshizo NOGAMI
Dated: March 17, 2014	Kazuyuki Shinezawa
	Kazuyúki SHIMEZAWA
Dated: March 17. 2014	Sheichi Suzuki
	Shoichi SUZUKI
Dated: March 17,2014	Yasıyuki kato
	Yasuyuki KATO
Dated: March 19, 2014	Łatsurari Venne
Dated.	Katsunari UEMURA

RECORDED: 03/31/2014