502669952 02/06/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2716559

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HUY DUNG HAN	12/14/2013
AKIRA ITO	12/17/2013
CHENXI ZHU	12/12/2013
DORIN VIOREL	01/21/2014

RECEIVING PARTY DATA

Name:	FUJITSU LIMITED	
Street Address:	1-1 KAMIKODANAKA 4-CHOME, NAKAHARA-KU	
City:	KAWASAKI-SHI, KANAGAWA	
State/Country:	JAPAN	
Postal Code:	211-8588	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14109650	

CORRESPONDENCE DATA

502669952

 Fax Number:
 (435)252-1361

 Phone:
 435-252-1360

Email: jwoodward@mabr.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name:

R. BURNS ISRAELSEN/MASCHOFF BRENNAN

Address Line 1: 1389 CENTER DRIVE

Address Line 2: SUITE 300

Address Line 4: PARK CITY, UTAH 84098

ATTORNEY DOCKET NUMBER:	F1423.10140US02
NAME OF SUBMITTER:	R. BURNS ISRAELSEN

| PATENT | REEL: 032162 FRAME: 0340

	/R. Burns Israelsen/ Reg.# 42,685
Date: 0	02/06/2014
Total Attachments: 4 source=F1423-10140US02-Assignment-Han#page1.tif source=F1423-10140US02-Assignment-Ito#page1.tif source=F1423-10140US02-Assignment-Viorel#page1.tif	

PATENT REEL: 032162 FRAME: 0341 Attorney Docket No.: F1423.10140US02

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) &Address(es) of ASSIGNEE(S))

(Insert Name(s) &Address(es) of ASSIGNEE(S))	
FUJITSU LIMITED		
	4-chome, Nakahara-ku, Kav	wasaki-shi, Kanagawa 211-8588 Japan
sells, assigns and transfers entitled (Title of Invention)	to ASSIGNEE the entire and e	nowledged, the undersigned ASSIGNOR hereby xclusive right, title and interest to the invention
WIRELESS COMMU	JNICATION PRECODER D	ETERMINATION
relating to International Pate Patent of the United States w	vas executad on even date herev	and/or for which application for Letters with or, if not so executed, was usert date of execution of application, if not not nourrent)
(b) fied on December 17, 2 Sense No 14/109,650	013	signee's attorney is hereby authorized to insert (b) the specified data, when known.
make office disting makes	al, substitute, reissue or reexami etters Patentis) may be granted :	ted States granted on said application and any nation application based thereon, for the full term and including any extensions thereof (collectively
said ASSIGNEE, to do all act maintaining and enforcing p application(s) and the issuant use proceeding, and in any came assistant acts to include	s which the ASSIGNEE may demi rotection for said invention, included on of said Letters Pater#(s), in a impation or other legal proceeds that not be limited to executing	NEE and without charge to but at the expense on necessary, desirable or expedient, for securing uding in the preparation and prosecution of sain ny interference, reissue, reexamination, or publicing which may arise or be declared in relation to all papers, including separate assignments and producing evidence.
IN WITNESS WHEREOF.	the undersigned inventor(s) has	(have) affixed his/her/their signature(s).
1)	Chenxi Zh	IU
(Signature)	(Type Name)	(Date)
2)	Dorin VIOR	EL
(Signature)	(Type Name)	(Date)
3) //20021	— HuyDung H	AN 12/14/2013
(Signature)	(Type Name)	(Date)
4)	Akira ITC	
(Signature)	(Type Name)	(Date)

1/1

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))

Fl	UJITSU LIMITED	r en		
	***************************************	e, Nakahara-ku,	Kawasaki-shi, Ka	anagawa 211-8588 Japan
sells, a entitled (Title o	assigns and transfers to ASSI	GNEE the entire ar	nd exclusive right, ti	undersigned ASSIGNOR hereby tle and interest to the invention ON
relating Patent	g to International Patent Applic of the United States was exec	cation PCT/JP/ uted on even date h	and/or erewith or, if not so e	for which application for Letters executed, was:
	executed on	<i>-</i>	(Insert date of e. concurrent)	xecution of application, if not
	led on	<u>]</u> ,		y is hereby authorized to insert data, when known.
continu or term	uation, division, renewal, substi	tute, reissue or reex tent(s) may be grant	amination application	ed on said application and any based thereon, for the full term extensions thereof (collectively,
said AS mainta applica use pro same,	SSIGNEE, to do all acts which to ining and enforcing protection ation(s) and the issuance of sai oceeding, and in any litigation	he ASSIGNEE may for said invention, d Letters Patent(s), or other legal proce be limited to execut	deem necessary, des including in the prep in any interference, i seding which may ar ing all papers, inclu	t charge to but at the expense of sirable or expedient, for securing, paration and prosecution of said reissue, reexamination, or public ise or be declared in relation to ding separate assignments and and producing evidence.
INV	WITNESS WHEREOF, the und	ersigned inventor(s)	has (have) affixed h	is/her/their signature(s).
1)		Chenx		
	(Signature)	(Type N	lame)	(Date)
2)		Dorin V	<u> </u>	·
	(Signature)	(Type N		(Date)
3)		Huy Dur		
	(Signature)	(Туре N	ame)	(Date)
4)(above Ito	Akira		12/17/2013
,	(Signature)	(Type N	ame)	(Date)

Attorney Docket No.: F1423.10140US02

	•		
	U.S. ASSIG	NMENT	
the undersigned invent@	N of the sum of One Dollar (\$1.00) or(s) (hereinafter, "ASSIGNOR") b ess(es) of ASSIGNEE(S))	, and of other good and value y	able consideration paid to
FUJITŞŲ LIMIT	ED		
	aka 4-chome, Nakahara-ku,	Kawasaki-shi, Kanagay	wa 211-8588 Japan
sells, assigns and trans entitled (Title of Invention)	E"), the receipt of which is hereby sfers to ASSIGNEE the entire at MMUNICATION PRECODE	nd exclusive right, title and	gned ASSIGNOR hereby interest to the invention
		···	_
Patent of the United Sta	Patent Application PCT/JP/ tes was executed on even date h	erewith or, if not so executed	d, was:
(a) executed on	<u></u>	(Insert date of execution concurrent)	of application, if not
(b) filed on December	r 17, 2013		
Serial No. 14/109	,650	Assignee's attorney is her in (b) the specified data, w	
ontinuation, division, re or terms for which the sa	and all Letters Patent(s) of the enewal, substitute, reissue or reex aid Letters Patent(s) may be grant ation(s) and Letters Patent(s)").	amination application based	thereon, for the full term
maintaining and enforci application(s) and the is use proceeding, and in same, such acts to inci	ee(s), when requested by said AS Il acts which the ASSIGNEE may a ng protection for said invention, suance of said Letters Patent(s), any litigation or other legal proce inde but not be limited to execut ightful oaths, providing sworn test	deem necessary, desirable of including in the preparation in any interference, reissue, seding which may arise or being all papers, including se	or expedient, for securing, and prosecution of said reexamination, or public be declared in relation to parate assignments and
IN WITNESS WHER	EOF, the undersigned inventor(s)	has (have) affixed his/her/th	eir signature(s).
1)	Chenx		
(Signatu			(Date)
2)O.W.	Dorin V	IOREL Jav	Salet Coll.
(Signatu	ire) (Type Na	ame)	(Date)
3)	Huy Dur	ια ΗΔΝ	

(Signature) (Type Name) (Date) Akira ITO **PATENT** (Signature) (Type Name) REEL: 032162(FRAME: 0344

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S))

FUJITSU LIMITED		
1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588 Japan		
(hereinafter, "ASSIGNEE"), the receipt of which is hereby sells, assigns and transfers to ASSIGNEE the entire are entitled (Title of Invention)		
WIRELESS COMMUNICATION PRECODER	R DETERMINATION	
relating to International Patent Application PCT/JP/ Patent of the United States was executed on even date he		
(a) executed on;	(Insert date of execution of application, if not concurrent)	
(b) filed on	Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.	
and to said application and all Letters Patent(s) of the continuation, division, renewal, substitute, reissue or reex or terms for which the said Letters Patent(s) may be grant hereinafter, "said application(s) and Letters Patent(s)").	amination application based thereon, for the full term	
The ASSIGNOR agree(s), when requested by said AS said ASSIGNEE, to do all acts which the ASSIGNEE may comaintaining and enforcing protection for said invention, application(s) and the issuance of said Letters Patent(s), use proceeding, and in any litigation or other legal processame, such acts to include but not be limited to execut declarations, taking all rightful oaths, providing sworn testing	deem necessary, desirable or expedient, for securing, including in the preparation and prosecution of said in any interference, reissue, reexamination, or public seding which may arise or be declared in relation to ing all papers, including separate assignments and	

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

1)	Christ	Chenxi ZHU	12/12/13
	(Signature)	(Type Name)	(Date)
2)		Dorin VIOREL	
	(Signature)	(Type Name)	(Date)
3)		Huy Dung HAN	
	(Signature)	(Type Name)	(Date)
4)		Akira ITO	
	(Signature)	(Type Name)	(Date)

PATENT REEL: 032162 FRAME: 0345

RECORDED: 02/06/2014