### PATENT ASSIGNMENT

## Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Akira SHIMAMURA	03/13/2009
Koichi MITA	03/13/2009
Hideshi FUJISHIMA	03/20/2009
Takashi ARAI	03/13/2009
Shunichi KO	03/13/2009
Takuya TERASAWA	03/13/2009
Koji MIKAMI	03/17/2009
Naoya KOMADA	03/15/2009

#### **RECEIVING PARTY DATA**

Name:	FUJITSU MICROELECTRONICS LIMITED
Street Address:	7-1, Nishi-Shinjuku 2-chome
Internal Address:	Shinjuku-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	163-0722

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12410152

### **CORRESPONDENCE DATA**

Fax Number: (202)857-6395

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

Phone: 2028576000

Email: dcipdocket@arentfox.com

Correspondent Name: Arent Fox LLP

Address Line 1: 1050 Connecticut Ave, NW

Address Line 2: Suite 400

500864858

PATENT REEL: 022711 FRAME: 0313 JP \$40.00 12410152

Address Line 4: Washington, DISTRICT OF COLUMBIA 20036		
ATTORNEY DOCKET NUMBER:	101229-00110	
NAME OF SUBMITTER:	Charles M. Marmelestein	
Total Attachments: 6 source=101229-00110_assignment#page1.tif source=101229-00110_assignment#page2.tif source=101229-00110_assignment#page3.tif source=101229-00110_assignment#page4.tif source=101229-00110_assignment#page5.tif source=101229-00110_assignment#page5.tif		

PATENT REEL: 022711 FRAME: 0314

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dolla inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) Fujitsu Microelectronics Limited	ar (\$1.00), and of other good and value	able consideration paid to the undersigned
7-1, Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo	163-0722 Japan	
(hereinafter, "ASSIGNEE"), the receipt of which is he ASSIGNEE the entire and exclusive right, title and in (Title of Invention) SIGNAL RECEIVER APPARATUS AND WA	terest to the invention entitled	SIGNOR hereby sells, assigns and transfers to
relating to International Patent Application PCT/IP_executed on even date herewith or, if not so executed,	and/or for which applicati	on for Letters Patent of the United States was
(a) executed on	; (Insert date of execution of a	application, if not concurrent)
(b) filed on	Assignage's attorney is be	explain authorized to inspect in (b) the annuity of
Serial No/;	data, when known.	reby authorized to insert in (b) the specified
and to said application and all Letters Patent(s) of the substitute, reissue or reexamination application based including any extensions thereof (collectively, hereina The ASSIGNOR agree(s), when requested by said which the ASSIGNEE may deem necessary, desirable including in the preparation and prosecution of said agreexamination, or public use proceeding, and in any lit	thereon, for the full term or terms for whice after, "said application(s) and Letters Pater ASSIGNEE and without charge to but at a cor expedient, for securing, maintaining an oplication(s) and the issuance of said Letter igation or other legal proceeding which may	h the said Letters Patent(s) may be granted and at(s)").  the expense of said ASSIGNEE, to do all acts and enforcing protection for said invention, are Patent(s), in any interference, reissue, by arise or be declared in relation to same, such
acts to include but not be limited to executing all pape sworn testimony, and obtaining and producing eviden-	ers, including separate assignments and de ce.	clarations, taking all rightful oaths, providing
IN WITNESS WHEREOF, the undersigned invent	or(s) has (have) affixed his/her/their signa	ture(s).
1) <u>5</u> 多才 養多 (Signature)	Akira SHIMAMURA (Type Name)	Mar. 13. 2009
2) 三田 造一	Koichi MITA	Mar, 13, 2009
(Signature)	(Type Name)	(Date)
(Signature)	Hideshi FUJISHIMA (Type Name)	(Date)
4) Signature)	Takashi ARAI	Mar. 13, 2009 (Date)
5)	(Type Name)  Shunichi KO	(Date) (Date)
(Signature)	(Type Name)	(Date)

11/ Jenswa 6) Jahyan Germana. (Signature)	<u>Takuya TERASAWA</u> (Type Name)	Mon. 13. 2008
7) (Signature)	Koji MIK AMI (Type Name)	(Date)
8) Hagy Marsh	Naova KOMADA (Type Name)	Mar. 15. 2000 (Date)

## **U.S. ASSIGNMENT**

IN CONSIDERATION of the sum of Or inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE Fujitsu Microelectronics Limited	<i>i</i>	, and of other good and valuable c	onsideration paid to the undersigned
7-1, Nishi-Shinjuku 2-chome, Shinjuku-ku	, Tokyo 163-0722	Japan	
(hereinafter, "ASSIGNEE"), the receipt of wh ASSIGNEE the entire and exclusive right, tit (Title of Invention) SIGNAL RECEIVER APPARATUS AT	le and interest to th	e invention entitled	OR hereby sells, assigns and transfers to
relating to International Patent Application Percented on even date herewith or, if not so e		and/or for which application fo	r Letters Patent of the United States was
(a) executed on		(Insert date of execution of applica	ation, if not concurrent)
(b) filed on		designee's attorney is hereby	authorized to insert in (b) the specified
Serial No/	;	data, when known.	aunorizea io moeri in (o) ine specifica
and to said application and all Letters Patent(substitute, reissue or reexamination application including any extensions thereof (collectively	on based thereon, fo	or the full term or terms for which the	said Letters Patent(s) may be granted and
The ASSIGNOR agree(s), when requested which the ASSIGNEE may deem necessary, including in the preparation and prosecution reexamination, or public use proceeding, and acts to include but not be limited to executing sworn testimony, and obtaining and producing the state of the s	desirable or exped of said application in any litigation or g all papers, includ	ient, for securing, maintaining and en (s) and the issuance of said Letters Pa other legal proceeding which may ari	forcing protection for said invention, tent(s), in any interference, reissue, se or be declared in relation to same, such
IN WITNESS WHEREOF, the undersign	ed inventor(s) has	(have) affixed his/her/their signature(	s).
1)		Akira SHIMAMURA	
(Signature)		. (Type Name)	(Date)
2)(Signature)		Koichi MITA	
(Signature)		(Type Name)	(Date)
3)(Signature)		Hideshi FUJISHIMA	(Date)
( Signature)	,	(Type Name)	(Date)
4)(Signature)		Takashi ARAI (Type Name)	(Date)
, a d			(2010)
5)(Signature)		Shunichi KO (Type Name)	(Date)
1 2-8		(-AL )	· /—>

6)		Takuya TERASAWA	
	(Signature)	(Type Name)	(Date)
7)	三上 副司	Koji MIKAMI	Mat. 17, 2009
	(Signature)	(Type Name)	(Date)
8)	<u> </u>	Naoya KOMADA	•
	(Signature)	(Type Name)	(Date)

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dol inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) Fujitsu Microelectronics Limited	lar (\$1.00), and of other good and valu	able consideration paid to the undersigned
7-1, Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo	o 163-0722 Japan	
(hereinafter, "ASSIGNEE"), the receipt of which is l ASSIGNEE the entire and exclusive right, title and i (Title of Invention) SIGNAL RECEIVER APPARATUS AND W.	nterest to the invention entitled	SSIGNOR hereby sells, assigns and transfers to
relating to International Patent Application PCT/JP_executed on even date herewith or, if not so execute	and/or for which applica	ation for Letters Patent of the United States was
(a) executed on	(Insert date of execution of	application, if not concurrent)
(b) filed on		
Serial No/	Assignee's attorney is no data, when known.	tereby authorized to insert in (b) the specified
and to said application and all Letters Patent(s) of th substitute, reissue or reexamination application base including any extensions thereof (collectively, herei The ASSIGNOR agree(s), when requested by sai which the ASSIGNEE may deem necessary, desirabincluding in the preparation and prosecution of said reexamination, or public use proceeding, and in any lacts to include but not be limited to executing all paysworn testimony, and obtaining and producing evidential to the said producing e	d thereon, for the full term or terms for whinafter, "said application(s) and Letters Pated ASSIGNEE and without charge to but a ble or expedient, for securing, maintaining application(s) and the issuance of said Let litigation or other legal proceeding which a pers, including separate assignments and dence.	ich the said Letters Patent(s) may be granted and ent(s)").  It the expense of said ASSIGNEE, to do all acts and enforcing protection for said invention, ters Patent(s), in any interference, reissue, may arise or be declared in relation to same, such leclarations, taking all rightful oaths, providing
1)(Signature)	Akira SHIMAMURA (Type Name)	(Date)
2)	Koichi MITA	(17the)
(Signature)	(Type Name)	(Date)
3) 藤坞 英	Hideshi FUJISHIMA	Mar. 20, 2009
(Signature)	(Type Name)	(Date)
4)	Takashi ARAI	
( Signature)	(Type Name)	(Date)
5)(Signature)	Shunichi KO (Type Name)	(Date)
เ อเขทดกนายา	(1 Vpe Name)	(L)ale)

6) _		Takuya TERASAWA	
	(Signature)	(Type Name)	(Date)
			, ,
7)		Koji MIKAMI	
	(Signature)	(Type Name)	(Date)
8)_		Naoya KOMADA	
	(Signature)	(Type Name)	(Date)