505814043 12/11/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5860872

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROKI TAKAHASHI	10/04/2019
SHOHEI YAMADA	10/04/2019
HIDEKAZU TSUBOI	10/04/2019
KAZUNARI YOKOMAKURA	09/23/2019

RECEIVING PARTY DATA

Name:	SHARP KABUSHIKI KAISHA
Street Address:	1 TAKUMI-CHO, SAKAI-KU
City:	SAKAI CITY, OSAKA
State/Country:	JAPAN
Postal Code:	590-8522
Name:	FG INNOVATION COMPANY LIMITED
Street Address:	FLAT 2623, 26/F TUEN MUN CENTRAL SQUARE
Internal Address:	22 HOI WING ROAD
City:	TUEN MUN, NEW TERRITORIES
State/Country:	HONG KONG

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16621272	

CORRESPONDENCE DATA

Fax Number: (571)313-7421

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 571-313-7440

Email: mrhodes@kbiplaw.com

Correspondent Name: KEATING & BENNETT, LLP

Address Line 1: 1800 ALEXANDER BELL DR.

Address Line 2: SUITE 200

Address Line 4: RESTON, VIRGINIA 20191

ATTORNEY DOCKET NUMBER: | 70404.4730/HA

PATENT REEL: 051241 FRAME: 0516

505814043

NAME OF SUBMITTER:	MICHELLE RHODES		
SIGNATURE:	/AMD/mr/		
DATE SIGNED:	12/11/2019		
	This document serves as an Oath/Declaration (37 CFR 1.63).		

Total Attachments: 4

source=70404-4730-PTO-20191211-Signed-Declaration-Assignment#page1.tif source=70404-4730-PTO-20191211-Signed-Declaration-Assignment#page2.tif source=70404-4730-PTO-20191211-Signed-Declaration-Assignment#page3.tif

source=70404-4730-PTO-20191211-Signed-Declaration-Assignment#page4.tif

Attorney Docket No. 70404.

COMBINED DECLARATION/ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION

Title	TERMINAL A	PPARATUS,	BASE STA	l'ION APPARATUS,	COMMUNICATI	ON METH	OD, AND I	INTEGRATED CIRCUIT
As a be	low named [N	VENTOR/	ASSIGNOR,	I hereby declare tl	nat:		***************************************	
This de	claration 🔲	The attach	aed applicat	ion, or				
is direc	ted to: 🛛	United Stafiled on	ates applica June 15, 20	tion or PCT intern 18	ational applicat	ion num	ber· <u>PCT/J</u>	P2018/023013
The abo	ove-identified	applicatio	n was made	or authorized to	be made by me.			
I believ	e that I am th	e original i	nventor or a	an original joint in	ventor of a clair	ned inve	ntion in the	e application.
I hereby claims.	y state that I l	ıave reviev	ved and und	lerstand the conte	nts of the above	e-identifi	ed specific	ation, including the
I acknow	wledge the du	ity to discl	ose informa	tíon which is mate	erial to patental	oility as d	efined in 3	37 CFR § 1.56.
590-85 Tuen M interest	after referred 22, Japan, and un, New Terr	l to as "ASS l having pla itories, Hon nder said in	IGNEE") ha aces of busing Mong, Ch evention and	FG Innovation Co ving places of busi ness at: Flat 2623, ina respectively is I any Letters Pater	ness at: 1. Tak 26/F Tuen Mus desirous of ac	umi-cho, 1 Central Juiring th	Square, 22 1e entire ri	2 Hoi Wing Road
ASSIGN good an right, tit said app which the righ	EE to ASSIGN Id valuable co tle, and intere plication or ar the same may	OR of the sonsideration est to the same same to the same same same same same same same sam	tum of One I n, ASSIGNO aid invention ation, division ; and all Let the Internat	R hereby sells, ass n and all Letters P on, renewal, subst ters Patent and ap ional Convention	receipt of whic igns, and transf atent of the Uni itute, or reissue oplications ther	h is herel ers to AS ted States thereof f efore thro	by acknow SIGNEE the s to be obta for the full ough the w	ledged, and for other e full and exclusive ained therefore on term or terms for vorld, including all
ASSIGN entered	OR hereby co into which w	venants tha ould confli	at no assign ct with this	ment, sale, agreen assignment and s	nent, or encumb ale;	orance ha	is been or v	will be made or
docume ASSIGNO and deli for, obta	nts relating to OR and will to ver to ASSIGN	o said appli estify as to t NEE or its le and enforc	ication, said the same in egal represe e said appli	invention, and sa any interference on entative any and a cation, said invent	id Letters Pater or litigation rela Il papers, instru	it as may ited there iments, of	be known eto and wil r affidavits	all pertinent facts and and accessible to and promptly execute a required to apply may be necessary
fine or i	mprisonment	of not mor	e than five	(5) years, or both.	ı this declaratic	n is puni	shable und	der 18 U.S.C. 1001 by
LEGAL N	NAME OF FIRE	ST INVENT	OR/ASSIGN	OR	***************************************			
Invento	r: TAKAHAS	HI, Hiroki	- Andrew A		***************************************	Date:	October	- 4, 20/9
Signatur		> Tay	Kahadi	/				
	NAME OF SEC		NTOR/ASSI	GNOR			. /	
Invento	r: YAMADA.	1 1				Date:	October	r 4, 20/9
	Shaho	1 Yama	da					

Signature:		
LEGAL NAME OF THIRD INVENTOR/ASSIGNOR		
Inventor: TSUBOI, Hidekazu	Date:	October 4, 2019
Signature: Wielehage Loubon LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR		, , , , , , , , , , , , , , , , , , ,
LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR		
Inventor: YOKOMAKURA, Kazunari	Date:	***************************************
Signature:		

Attorney Docket No. 70404.

COMBINED DECLARATION/ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION

Title TERMINAL APPARATUS, BASE STATION APPARATUS, COMMUNICATION	METHOD, AND INTEGRATED CIRCUIT			
As a below named INVENTOR/ASSIGNOR, I hereby declare that:				
This declaration The attached application, or	This declaration The attached application, or			
is directed to:	ion number PCT/JP2018/023013			
The above-identified application was made or authorized to be made by me. $% \label{eq:continuous}%$				
I believe that I am the original inventor or an original joint inventor of a claim $% \left(1\right) =\left(1\right) \left(1\right) $	ned invention in the application.			
I hereby state that I have reviewed and understand the contents of the above claims.	e-identified specification, including the			
I acknowledge the duty to disclose information which is material to patental	oility as defined in 37 CFR § 1.56.			
WHEREAS, Sharp Kabushiki Kaisha and FG Innovation Company Limited (hereinafter referred to as "ASSIGNEE") having places of business at: 1, Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522. Japan, and having places of business at: Flat 2623, 26/F Tuen Mun Central Square. 22 Hoi Wing Road, Tuen Mun, New Territories. Hong Kong, China respectively is desirous of acquiring the entire right, title, and interest in, to, and under said invention and any Letters Patent that may be granted therefore in the United States and in any and all foreign countries;				
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 or other relevant International Treaties and Arrangements.				
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.				
I hereby acknowledge that any willful false statement made in this declaration fine or imprisonment of not more than five (5) years, or both.	on is punishable under 18 U.S.C. 1001 by			
LEGAL NAME OF FIRST INVENTOR/ASSIGNOR				
Inventor: TAKAHASHI, Hiroki	Date:			
Śignature:				
LEGAL NAME OF SECOND INVENTOR/ASSIGNOR				
Inventor: YAMADA, Shohei	Date:			

18R00531/US

Signature:	
LEGAL NAME OF THIRD INVENTOR/ASSIGNOR	
Inventor: TSUBOI, Hidekazu	Date:
Signature:	
LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR	_
Inventor: YOKOMAKURA, Kazunari	Date:Sept. 23, 2019
Signature: Hayavi Jokomukura	

PATENT REEL: 051241 FRAME: 0521

RECORDED: 12/11/2019