# 505822502 12/16/2019

EPAS ID: PAT5869332

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
FUMIO OKUMURA	06/16/2014
NAOTO SHIRAGA	06/16/2014
TAKESHI MIYAKE	06/16/2014
TAKANOBU SUZUKI	06/19/2014

## **RECEIVING PARTY DATA**

Name:	BROTHER KOGYO KABUSHIKI KAISHA
Street Address:	15-1 NAESHIRO-CHO, MIZUHO-KU
City:	NAGOYA-SHI, AICHI-KEN
State/Country:	JAPAN
Postal Code:	467-8561

### **PROPERTY NUMBERS Total: 1**

Property Type	Number		
Application Number:	16433611		

## CORRESPONDENCE DATA

**Fax Number:** (202)824-3001

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:** (202) 824-3000

**Email:** bwptopat@bannerwitcoff.com, aanderson@bannerwitcoff.com

Correspondent Name: BANNER & WITCOFF, LTD.

Address Line 1: 1100 13TH ST. NW

Address Line 2: STE 1200

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	006838.00260
NAME OF SUBMITTER:	CHUNHSI ANDY MU
SIGNATURE:	/Chunhsi Andy Mu/
DATE SIGNED:	12/16/2019

**Total Attachments: 2** 

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PATENT 505822502 REEL: 051293 FRAME: 0135

#### ASSIGNMENT

		(1)	Fumio OKUMURA	(5)	
(1-5) Insert Name(s) of Inventor(s)	(2)	Naoto SHIRAGA	(6)		
		(3)	Takeshi MIYAKE	(7)	
		(4)	Takanobu SUZUKI	(8)	
				e dollar (\$1.00) and other good and valu signed agree(s) to assign, and hereby do	able considerations paid to
(9)	Insert Name of Assignee	(9)	BROTHER KOGYO KABUSHIK	II KAISHA	
(10) Insert Address of Assignee		(10)	15-1 Naeshiro-cho, Mizuho-ki	u, Nagoya, Aichi 467-6561, Japan	1
			as defined in 35 U.S.C. §100, in the provisional, non-provisional, divisional	nee) the entire right, title and interest for the invention, and in all applications for pal, continuation, substitute, and relesue aparaments that may be granted	atent including any and all optication(s), and all Letters
(11)	insert Identification	(11)	TERMINAL DEVICE AND PRIN	ITER	
	of Invention such as Title, Case Number, or Foreig Application Numbe	78	(Attorney Docket No.		
			for which the undersigned has (have)	executed an application for patent in the U	Inited States of America
(12)	Insert Date of Signing of Application	(12)	on <u>Jun. 16, 2014</u>	, Jun. (6.2014, Jun	.16,2014
(13)	Alternative Identification for filed applications	(13)	U.S. application Serial Number		
applical any app Assigns claims reexam States full right herewith identific	tions and patents as the 2) The undersigned offication or continuation as in every way possib 3) The undersigned or provisions of the interest of a valuation a grant of a valuation a grant of a valuation from said appresenting from said appresention of this document.	e Assi I agree n or divide in ot I agree armatio I agree id Unlib I hereb bilicatio nterest d here	gnees may deem necessary.  (s) to execute all papers necessary in ision thereof, or any patent or release statisting evidence and going forward withing evidence all papers and documenal Convention for Protection of Industrials to perform all affirmative acts whed States patent to the Assignee, y authorize(s) and request(s) the Comn(s) to the said Assignee, as Assigner herein assigned, and that he has (the say or desirable in order to comply were processed to the part of the say or desirable in order to comply were processed.	ents and perform any act which may be n	nay be declared concerning n, and to cooperate with the ecessary in connection with in or confirm by reissue or etters Patents of the United ints that he has (they have), any agreements in conflict its assignment any further
	• Jun. 16	. I	014	Eums Obussus	contral V
Dat	* <u>Juri 18</u> T 11		Name of Inventor	Fumio OKUMURA,	(SEAL)
Dat	hannanna (h. 1000)	7, 1	•	Naoto SHIRASA	(SEAL)
Det	e Jun. 16	, 20	14 Name of Inventor	Tukashi Irijaher Takeshi MIYAKE	(SEAL)
Dat	e		Name of inventor	Takanobu SUZUKI	(SEAL)
Dat	6		Hame of inventor		(SEAL)

PATENT REEL: 051293 FRAME: 0136

#### **ARSIGNMENT**

		(1)	Fumio OKUMURA	(5)	
(1-8) insert Name(s) of inventor(s)	(2)	Nacto SHIRAGA	(6)		
	(3)	Tekeshi MIYAKE	(r)	202770000000	
		(4)	Tekanobu SUZUKI		-
			In consideration of the sum of one each of the undersigned, the undersigned the undersigned.	dollar (\$1.00) and other good and va	duable considerations paid to
(9)	Insert Name of Assignee	(9)	BROTHER KOGYO KABUSHIKI	KAISHA	
(10)		(10)	15-1 Nasshiro-cho, Mizuho-ku,	Nagoya, Alchi 467-6561, Jap	an .
			(hareinafter designated as the Assigna as defined in 35 U.S.C. §160, in the provisional, non-provisional, divisional Patent, extensions, reissues and reex	invention, and in all applications for continuation, substitute, and reissue	patent including any and all application(s), and all Latters
(11)	insert Identification	(11)	TERMINAL DEVICE AND PRIN		
	of Invention such as Title, Case				
	Number, or Foreign Application Numbe		(Attorney Docket No.	00000000 dt df -004 d-0000 - N - d-N - d-A	<b></b>
			for which the undersigned has (have) e	xecuted an application for patent in the	United States of America
(12)	Insert Date of Signing of Application	(12)	on <u>Jan.19</u> ,	2014	
(13)	Alternative Identification for filed applications	(13)	U.S. application Serial Number		
appikati any appi Assigne claims o reexami States n full right herewith further id recordal	applications for the incons and patents as the 2) The undersigned ication or continuation in every way possible 3). The undersigned repovisions of the Inte 4) The undersigned tation a grant of a valid 5). The undersigned esuiting from said applits convey the entire in 6). The undersigned to convey the entire in 6.	vention  Assk sgree or div e in ob sgree mation sigree d Unite hereb lication terest hereb / be no	e(s) to execute all papers necessary in n, and any patent(s) issuing thereon, a grees may deem necessary.  (s) to execute all papers necessary in islon thereof, or any patent or reissue a disting evidence and going forward with (s) to execute all papers and documen nal Convention for Protection of Industrial (s) to perform all affirmative acts while do States patent to the Assignes, y authoriza(s) and request(s) the Common (s) to the said Assignes, as Assignes herein assigned, and that he has (they by grant(s) the firm of Scully, Scott, it scessary or desirable in order to comply that by the undersigned on the date(s)	and also to execute separate assignm connection with any interference which philosten based thereon, for the invent is such interference. It is and perform any act which may be all Property or similar agreements, the may be necessary to obtain, main its stoner of Patents to issue any and a of the entire interest, and hereby cover have) not executed, and will not executed the units of the United States Particular and states Particular and with the rules of the United States Particular and with the rules of the United States Particular and with the rules of the United States Particular and with the rules of the United States Particular and with the rules of the United States Particular and with the rules of the United States Particular and with the rules of the United States Particular and pa	ents in connection with such a may be declared concerning ion, and to cooperate with the necessary in connection with tain or confirm by reissue or I Letters Patents of the United nants that he has (they have) ie, any agreements in conflict need on this assignment any ient and Trademerk Office for
Date			Name of inventor		(SEAL)
Date			Name of Inventor	Fumio OKUMURA	(SEAL)
				Naoto SHIRAGA	•
Date Date	Jun 18	20	Name of Inventor  Name of Inventor	Taxeshi MIYAKE Jahanahu Suzur	KO (SEAL)
Date			Name of Inventor	Tskanobu ŚUZÚKI	(SEAL)
n			Norma of Important		

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RECORDED: 12/16/2019