01/04/2018 504714460

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RYOICHI MATSUSHIMA	04/09/2013
HIROFUMI KONDO	04/10/2013
YASUHIRO KATO	04/10/2013
MASAYOSHI HAYASHI	04/10/2013
MASATO SUEYASU	04/10/2013
REIKO TOYAMA	04/12/2013

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:	15862395		

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	GARY D. FEDOROCHKO
SIGNATURE:	/Gary D. Fedorochko/
DATE SIGNED:	01/04/2018

PATENT REEL: 044539 FRAME: 0612 504714460

Total Attachments: 3 source=Executed Assignment#page1.tif source=Executed Assignment#page2.tif source=Executed Assignment#page3.tif

PATENT REEL: 044539 FRAME: 0613

ASSIGNMENT

		(1)	Ryoichi MATS	SUSHIMA	(5)	Masato SUEYASU	
(1-8) Insert		(2)	Hirofumi KON	IDO	(6)	Reiko TOYAMA	
	Name(s) of Inventor(s)	(3)	Yasuhiro KAT	ГО	(7)		
		(4)	Masayoshi H	AYASHI	(8)		
						and other good and valuable considera coassign, and hereby does assign, tran	
(9)	Insert Name of Assignee	(9)	BROTHER K	OGYO KABUSHIKI	KAISHA		
(10)	Insert Address of Assignee	(10)	15-1 Naeshiro	o-cho, Mizuho-ku, N	agoya-shi, Aid	hi-ken, 467-8561 Japan	<u> </u>
			as defined in 35 provisional, non-	5 U.S.C. §100, in the provisional, divisional	invention, and continuation, s	ht, title and interest for the United State in all applications for patent including substitute, and reissue application(s), ar sates that may be granted on the invention	any and all nd all Letters
(11)	Insert Identification of Invention	(11)	IMAGE FORM	MING APPARATUS			
	such as Title, Case Number, or Foreign Application Number		(Attorney Dock	et No01668	9.00339		
			for which the und	dersigned has (have) e	executed an app	lication for patent in the United States of	America
(12)	Insert Date of Signing of Application	(12)	on <u>(</u>	apr. 9, 201	<u>,3</u>		····
(13)	Alternative Identification for filed applications	(13)	U.S. application	Serial Number	13/852,795		
applicati any appl Assigne claims o reexamil States re full right herewith	applications for the in ons and patents as the 2) The undersigned ication or continuation e in every way possible. 3) The undersigned reprovisions of the Intervalue of the Intervalue of a valing the undersigned as ulting from said appeto convey the entire in the undersigned. 6) The undersigned as ulting from the undersigned as ulting from the undersigned of the undersigned as ulting from the undersigned of the undersigned.	ventice Ass agree or diversation agreed Unit heres discounteres discou	on, and any pater ignees may deem e(s) to execute all vision thereof, or a braining evidence e(s) to execute all onal Convention for e(s) to perform a feed States patent or authorize(s) and on (s) to the said A therein assigned, eby grant(s) the	nt(s) issuing thereon, in necessary. I papers necessary in any patent or reissue a and going forward with a papers and documer or Protection of Industral affirmative acts white to the Assignee, drequest(s) the Communication of the communic	connection with pplication based in such interferents and perform ial Property or sich may be neconissioner of Pate of the entire int have) not exect.	any act which may be necessary in co	on with such and concerning erate with the innection with any reissue or of the United is (they have) into in conflict any further
	In witness whereof,	exec	uted by the unde	rsigned on the date(s) opposite the	undersigned name(s).	
Date	<u> Apr. 9</u>		2013	Name of Inventor	Tayora Ryojehi MAT	lii Matsisliina SUSHIMA	_ (SEAL)
Date				Name of Inventor			_ (SEAL)
Date	·			Name of Inventor			_ (SEAL)
Date				Name of Inventor			_ (SEAL)
Date				Name of Inventor			_ (SEAL)

Name of Inventor

PATENT REEL: 044539 FRAME: 0614

_____ (SEAL)

ASSIGNMENT

		(1)	Ryoichi MATS	SUSHIMA	(5)	Masato SUEYASU		
(1-8) Insert	(2)	Hirofumi KON	IDO	(6)	Reiko TOYAMA			
	Name(s) of inventor(s)	(3)	Yasuhiro KAT	го	(7)			
		(4)	Masayoshi H	AYASHI	(8)			
						and other good and valuable considers assign, and hereby does assign, tr		
(9)	Insert Name of Assignee	(9)	BROTHER K	OGYO KABUSHIKI	KAISHA			
(10)	Insert Address of Assignee	(10)	15-1 Naeshiro-cho, Mizuho-ku, Nagoya-shi, Aichi-ken, 467-8561 Japan					
			as defined in 39 provisional, non-	5 U.S.C. §100, in the provisional	invention, and , continuation, s	ht, title and interest for the United Sta in all applications for patent includic substitute, and reissue application(s), cates that may be granted on the inver	ng any and all and all Letters	
(11)	Insert Identification	(11)	IMAGE FORM	MING APPARATUS				
	of Invention such as Title, Case							
	Number, or Foreign Application Numbe		(Attorney Dock	et No. 01668	39.00339			
-			for which the un	dersigned has (have) e	executed an app	lication for patent in the United States	of America	
(12)	Insert Date of Signing of Application	(12)	on	Apr. 10,	2013			
(13)	Alternative Identification for filed applications	(13)	U.S. application	Serial Number	13/852,795			
any appl Assigner claims o reexamin States re full right herewith	ication or continuation in every way possible 3) The undersigned r provisions of the Inte 4) The undersigned that ion a grant of a valid 5) The undersigned esculting from said app to convey the entire in The undersigned	or divide in oli agrecematical agredid Unitional herebolicational teresid here	vision thereof, or a otalining evidence e(s) to execute al nal Convention for e(s) to perform a ed States patent by authorize(s) an n(s) to the said A therein assigned, eby grant(s) the	any patent or reissue a and going forward with I papers and document or Protection of Industral Ill affirmative acts white to the Assignee. d request(s) the Communication is signee, as Assignee, and that he has (they firm of Banner & V	application based in such interferents and perform ial Property or s ich may be nec missioner of Pat of the entire into have) not exec Vitcoff, LTD th	any act which may be necessary in imilar agreements. essary to obtain, maintain or confirments to issue any and all Letters Pater erest, and hereby covenants that he suted, and will not execute, any agreeme power to insert on this assignments.	connection with n by reissue or nts of the United thas (they have) nents in conflict ent any further	
	ation which may be no ion of this document.	ecess	ary or desirable	in order to comply wi	ith the rules of	the United States Patent and Trader	mark Office for	
	In witness whereof,	exec	uted by the unde	rsigned on the date(s) opposite the	undersigned name(s).		
Date	Apr. 1	0,	2013	Name of Inventor	Hirofuni KC	ri Kurdo	(SEAL)	
Date	Apt. 1	o .,	20/3	Name of Inventor	Yasus	hivo Kato	(SEAL)	
Date	<u> Apr. 1</u>	0,	2013	Name of Inventor	Masayoshi I	vao Kato Masayoshit HAYASHI	ayasisEAL)	
Date	Apr. 10	7	2013	Name of Inventor	Masato SUE	- Sueyasu	(SEAL)	
Date				Name of Inventor			(SEAL)	
Date				Name of Inventor			(\$EAL)	

PATENT REEL: 044539 FRAME: 0615

ASSIGNMENT

		(1)	Ryoichi MATSUSHIMA	(5)	Masato SUEYASU_	
(1-8)	Insert	(2)	Hirofumi KONDO	(6)	Reiko TOYAMA	
	Name(s) of Inventor(s)	(3)	Yasuhiro KATO	(7)		
	•	(4)	Masayoshi HAYASHI	(8)	000	
			In consideration of the sum of on each of the undersigned, the undersigned over to		and other good and valuable consider a assign, and hereby does assign, tra	
(9)	Insert Name of Assignee	(9)	BROTHER KOGYO KABUSHIKI	KAISHA		
(10)	Insert Address	(10)	15-1 Naeshiro-cho, Mizuho-ku, N	agoya-shi, Aid	hi-ken, 467-8561 Japan	
			(hereinafter designated as the Assigne as defined in 35 U.S.C. §100, in the provisional, non-provisional, divisional Patent, extensions, reissues and reexa	invention, and continuation, s	in all applications for patent including ubstitute, and reissue application(s), a	g any and all and all Letters
(11)	Insert Identification	(11)	IMAGE FORMING APPARATUS			
	of Invention such as Title, Case Number, or Foreign Application Number		(Attorney Docket No. 01668	9.00339		
			for which the undersigned has (have) e	executed an app	lication for patent in the United States of	of America
(12)	Insert Date of Signing of Application	(12)	on Apr. (2, 2	0(3		
(13)	Alternative Identification for filed applications	(13)	U.S. application Serial Number	3/852,795		
application any application Assigne claims of reexami States in full right herewith identification	ons and patents as the 2) The undersigned lication or continuation is in every way possib 3) The undersigned right provisions of the Interval of a valuation a grant of a valuation from said appropriation from said appropriation of the undersigned is in the undersigned in the undersi	e Assi agree or divide in old lagree ematio dagree id Unit hereb olicatio nteresi	n, and any patent(s) issuing thereon, gnees may deem necessary. (s) to execute all papers necessary in vision thereof, or any patent or reissue a staining evidence and going forward with (s) to execute all papers and documer nal Convention for Protection of Industre(s) to perform all affirmative acts while d States patent to the Assignee. As y authorize(s) and request(s) the Common(s) to the said Assignee, as Assignee therein assigned, and that he has (they beby grant(s) the firm of Banner & Vary or desirable in order to comply with the said assigned and the comply with the said said and the said said said said said said said said	connection with pplication based a such interferents and performial Property or such may be neconissioner of Patrof the entire interpretation in the rules of the rules of the rules of the rules of the property of the rules of the performance in the rules of the rul	any interference which may be declar I thereon, for the invention, and to coople. any act which may be necessary in omilar agreements. essary to obtain, maintain or confirments to issue any and all Letters Patent erest, and hereby covenants that he had and will not execute, any agreement and will not execute, any agreement power to insert on this assignment the United States Patent and Tradements.	ed concerning perate with the connection with by reissue or s of the United as (they have) ents in conflict at any further
			ated by the undersigned on the date(
Date	. Apr.t	2 9	2013 Name of Inventor	Reiko TOYA	o Joyama	(SEAL)
Date						
Date			Name of Inventor			_ (SEAL)
Date			Name of Inventor			(SEAL)
Date			Name of Inventor			_ (SEAL)

Name of Inventor _

PATENT REEL: 044539 FRAME: 0616

_____ (SEAL)

RECORDED: 01/04/2018