PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		

CONVEYING PARTY DATA

Name	Execution Date
HIDENORI JO	02/09/2016
KEIJI SEO	02/09/2016
TAKAMINE HOKAZONO	02/09/2016
KENJI KURITA	02/04/2016
HITOSHI SANADA	02/09/2016

RECEIVING PARTY DATA

Name: BROTHER KOGYO KABUSHIKI KAISHA	
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State/Country:	JAPAN
Postal Code:	467-8561

PROPERTY NUMBERS Total: 1

Property Type	Number			
Application Number:	15055976			

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	GARY D. FEDOROCHKO			
SIGNATURE:	/Gary D. Fedorochko/			
DATE SIGNED:	02/29/2016			

Total Attachments: 2

PATENT REEL: 037852 FRAME: 0927 source=Assignment#page1.tif
source=Assignment#page2.tif

PATENT REEL: 037852 FRAME: 0928

ASSIGNMENT

		(1)	Hidenori JO)	(5)	Hitoshi SANADA	
(1-8)	Insert	(2)	Keiji SEO		(6)		
	Name(s) of Inventor(s)	(3)	Takamine l	HOKAZONO	(7)		
		(4)	Kenji KUR	TA	(8)		
			In conside each of the un over to	ration of the sum of edersigned, the under	one dollar (\$1,00) signed agree(s) to	and other good and valuable conside o assign, and hereby does assign, tra	rations paid to ansfer and set
(9).	Insert Name of Assignee	(9)	BROTHER H	(OGYO KABUSHII	(I KAISHA		
(10)	Insert Address of Assignee	(10)	15-1 Naeshiro-cho, Mizuho-ku, Nagoya-shi, Aichi-ken, 467-8561 Japan				
			as defined in 3 provisional, nor	35 U.S.C. §100, in the n-provisional, division	ne invention, and al, continuation, s	nt, title and interest for the United Stat in all applications for patent includin ubstitute, and reissue application(s), a ates that may be granted on the invent	g any and all and all Letters
(11)	Insert Identification	(11)	ROLL HOLD	ING APPARATUS		••••	
	of Invention such as Title, Case						
	Number, or Foreign Application Number		(Attorney Dock	et No.)
/d 2\	Insert Date of					cation for patent in the United States of	of America
(12)	Signing of Application	(12)	on \mathcal{F}_{ϵ}	zb. 9, 20	2/6		
(13)							
application any application Assigned claims of reexamin	applications for the income and patents as the 2) The undersigned ication or continuation in every way possibly 3) The undersigned reprovisions of the interest of a grant of a validation a grant of a validation from said applications from said applicat	nvention e Assign green or divide in oblide in oblide agree mation agree d Unite hereby	n, and any pater gnees may deem (s) to execute all sion thereof, or a taining evidence (s) to execute al all Convention for (s) to perform a did States patent or authorize(s) an (s) to the said A	nt(s) issuing thereon, in necessary. I papers necessary it any patent or reissue and going forward with papers and docume or Protection of Industrative acts who to the Assignee, as Assignee, as Assignee.	and also to execute a connection with application based the such interference and perform a rial Property or siral prope	any act which may be necessary in co	ed concerning erate with the connection with by reissue or s of the United is (they have)
Identifica	6) The undersigned					power to insert on this assignment te United States Patent and Tradema	
	In witness whereof,	execui	ed by the unde	rsigned on the date	(s) opposite the u	indersigned name(s),	
Date	Feb.	9,	2016	Name of Inventor	Hideno	ni Jo	_ (SEAL)
Date	Heb.	9 ['] ,	2016	Name of Inventor	Keiji	Seo	_ (SEAL)
Date	Feb.	7,	20,16	Name of Inventor	Jakamin	r Hokazono	_ (SEAL)
Date				Name of Inventor			_ (SEAL)
Date	· Feb.	9,	6) مد	Name of Inventor	Hitoshi	SAnada	_ (SEAL)
Date				Name of Inventor			_ (SEAL)

PATENT REEL: 037852 FRAME: 0929

ASSIGNMENT

		(1)	Hidenori JO	(5)	Hitoshi SANADA		
(1-8)	Insert	(2)	Keiji SEO	(6)			
	Name(s) of inventor(s)	(3)	Takamine HOKAZONO	(7)			
		(4)	Kenji KURITA	(8)			
				ne dollar (\$1.00)	and other good and valuable considerations paid to a assign, and hereby does assign, transfer and set		
(9)	Insert Name of Assignee	(9)	BROTHER KOGYO KABUSHIK	I KAISHA			
(10)	Insert Address of Assignee	(10)	15-1 Naeshiro-cho, Mizuho-ku,	Nagoya-shi, Aid	hi-ken, 467-8561 Japan		
	-		(hereinafter designated as the Assignee) the entire right, title and interest for the United States of Amerias defined in 35 U.S.C. §100, in the Invention, and in all applications for patent including any and provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Lette Patent, extensions, reissues and reexamination certificates that may be granted on the invention known a				
(11)	Insert Identification	(11)	ROLL HOLDING APPARATUS				
	of Invention such as Title, Case						
	Number, or Foreig Application Number		(Attorney Docket No.				
					ication for patent in the United States of America		
(12)	Insert Date of Signing of Application	(12)	on <u>Feb. 4, 20</u>	/6			
(13)	Alternative Identification for filed applications	(13)	U.S. application Serial Number				
application any app Assigner claims of reexamited States in full right herewith identificate recordate.	applications for the li- ons and patents as the 2) The undersigned lication or continuation in every way possib 3) The undersigned reprovisions of the Intel 4) The undersigned nation a grant of a valid 5) The undersigned asulting from said application convey the entire lift. 6) The undersigned to convey the entire lift. 6) The undersigned tion of this document.	nventione Assignation or divide in obtained in obtaine	n, and any patent(s) issuing thereon, gnees may deem necessary. (s) to execute all papers necessary in ision thereof, or any patent or reissue a taining evidence and going forward wites to execute all papers and docume had Convention for Protection of Industry (s) to perform all affirmative acts whe distates patent to the Assignee, y authorize(s) and request(s) the Complete to the said Assignee, as Assignee therein assigned, and that he has (they by grant(s) the firm of Banner & Netherein assigneer as the said Assigneer and the said Assigneer a	and also to exert a connection with application based the such interferent into any person or site of the entire interpretation between the entire interpretation in the entire interpretation in the entire interpretation of the entire interpretation in the entire interpretation	any act which may be necessary in connection with milar agreements, assary to obtain, maintain or confirm by reissue or ints to issue any and all Letters Patents of the United trest, and hereby covenants that he has (they have) ted, and will not execute, any agreements in conflict a power to insert on this assignment any further ne United States Patent and Trademark Office for		
			No. of the state		(OFAL)		
Date			Name of Inventor		(SEAL)		
Date			Name of Inventor		(SEAL)		
Date			Name of Inventor		(SEAL)		
Date	Feb. 4	,20	Name of inventor	<u>– Kenj</u>	i Kurtta (SEAL)		
Date			Name of Inventor		(SEAL) .		
5.4.			Name of Inventory		· (SEAL)		

PATENT REEL: 037852 FRAME: 0930

RECORDED: 02/29/2016