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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT			
ONVEYING PARTY D	ΑΤΑ					
		Name	Execution Date			
YUMU IKEDA			03/25/2011			
RECEIVING PARTY DA	TA					
Name:	BROTHE	ER KOGYO KABUSHIKI KAISHA				
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State/Country:	JAPAN					
Postal Code:	467-856	1				
Application Number:	1	4746228				
Application Number: CORRESPONDENCE D		4746228				
CORRESPONDENCE D Fax Number:	ATA ((612)332-9081				
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CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NU	PATA (f e sent to provided; d E P M N	612)332-9081 the e-mail address first; if that is u if that is unsuccessful, it will be s llizama@merchantgould.com E. JOSEPH GESS P.O. BOX 2903 MERCHANT & GOULD PC MINNEAPOLIS, MINNESOTA 55402- 15374.0051FPC1 ANDREW J. LAGATTA	ent via US Mail.			
CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if j</i> Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 2: Address Line 4: TTORNEY DOCKET NU IAME OF SUBMITTER:	PATA (f e sent to provided; d E P M N	612)332-9081 the e-mail address first; if that is u if that is unsuccessful, it will be s llizama@merchantgould.com E. JOSEPH GESS P.O. BOX 2903 /IERCHANT & GOULD PC /INNEAPOLIS, MINNESOTA 55402- 15374.0051FPC1 ANDREW J. LAGATTA /Andrew J. Lagatta/	ent via US Mail.			

2010-02611 US/57CL1D

ASSIGNMENT

		(1)	Ayumu	IKEDA	. (5)	· .		
(1-8)	insert	(2)			. (6)			
	Name(s) of inventor(s)	(3)			(7)			
		(4)			(6)	· · ·		
			In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and se over to					
(9)	(9) Insert Name of Assignee		BROTH	ER KOGYO	KABUSHIKI	KAISHA		
(10)	Insert Address of Assignee	(10)	15-1, Naeshiro-cho, Mizuho-ku, Nagoya-shi, Alchi-ken 467-8561 JAPAI					
(11)	insert Identification	(11)	as defined provisional, Patent, exte CAP DI	in 35 U.S.C. §100, in non-provisional, division incions, reissues and re EVICE AND LIQU	the Invention, an mal, continuation, examination certif	ight, title and interest for the United States of America d in all applications for patent including any and all substitute, and relasue application(s), and all Letters ficates that may be granted on the Invention known as APPARATUS PROVIDED WITH		
	of Invention such as Title, Case		THE SA	ME				
	Number, or Foreign Application Numb e r		(Attorney I		<u> </u>			
			for which th	a undersigned has (har	/e) executed an ap	oplication for patent in the United States of America		
(12)	insert Date of Signing of Application	(12)	on _	Mar. 25 2	011			
(13)	Alternative Identification for filed applications	(13)	U.S. applie	ation Serial Number	14/746,22	8		
			filed	June 22, 2015				
applic	e applications for the ations and patents as t	nventi ne As:	on, and any ignees may	pateni(s) issuing more deem necessary, de ell paren necessary,	on, and also to d u in consenting wi	with any application and any continuing, divisional or xecute separate assignments in connection with such ith any interference which may be declared concerning red thereon, for the invention, and to cooperate with the		

any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the international Convention for Protection of Industrial Property or similar agreements.
4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) not execute, any will not execute, any agreements in conflict Merchant & Convel the antire interest, and will not execute, any agreements in conflict Merchant & Convel the more there in teres herein assigned, and that he has (they have) not execute, and will not execute, any agreements in conflict Merchant & Convel the entire interest herein assigned, and that he has (they have) not execute.

berewith. 6) The undersigned hereby grant(s) the firm of the firm of the united by power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Petent and Trademark Office for recordation of this which may be necessary or desirable in order to comply with the rules of the United States Petent and Trademark Office for recordation of this which may be necessary or desirable in order to comply with the rules of the United States Petent and Trademark Office for recordation of this which may be necessary or desirable in order to comply with the rules of the United States Petent and Trademark Office for recordation of this states Petent and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for the states Petert and Trademark Office for recordation of the states Petert and Trademark Office for the states Petert and Trademark document.

in witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	Mar. 25, 2011	Name of Inventor	Ayumu IREUA	(SEAL)
Date		Name of Inventor		(SEAL)
Date		Name of Inventor		(SEAL)
Date		Name of Inventor		(SEAL)
Date		Name of Inventor		(SEAL)
Date		Name of inventor	₩₩ [₩] -17-₩-₩-₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	(SEAL)
Date	·	Name of Inventor		(SEAL)
Date		Name of Inventor		(SEAL)

PATENT REEL: 035877 FRAME: 0721

RECORDED: 06/22/2015