Mail Stop:
<b>Assignment Recordation Services</b>
Director of the U.S. Patent
and Trademark Office
P.O. Box 1450
Alexandria VA 22313-1450

06-01-2010

103598529

## U.S. DEPARTMENT OF COMMERCED Patent and Trademark Office.

12**8**010**8**0 052010

Attorney Docket No.

145326

		<u> </u>
	Please record the attached orig	ginal document or copy thereof.
1.	A. Name of conveying parties:	2. A. Name and address of receiving parties:
	1) Shigeru SATO 2) Masato KOYASU 3) Yosuke TAKAI 4) Masaaki OSHIMA  B. Additional name(s) of conveying party(ies) attached?  ☐ Yes ☒ No	1) YAMAICHI ELECTRONICS CO., LTD. 28-7, NAKAMAGOME 3-CHOME, OHTA-KU, TOKYO 143-8515, JAPAN  2) SONY CORPORATION 1-7-1, KONAN, MINATO-KU, TOKYO 108-0075, JAPAN
3.	A. Nature of conveyance:	B. Additional name(s) & address(es) attached?  ☐ Yes ☑ No
	Security Agreement Change of Name	
	Other	
	B. Execution Date: April 26, 2010 - ALL	
4.	☐ This document is being filed together with a new applic	eation.
	A. Patent Application No.(s)	B. Patent No.(s)
	Additional numbers atta	l ached? □ Yes ☒ No
	C. Title of Application: <u>CARD CONNECTOR</u>	
5.	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
	Name: James A. Oliff	7. A. Total fee (37 CFR 3.41)\$ 40.00
		B. Enclosed (Check No. 229239)
	Address: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850	Credit any overpayment or charge any underpayment to deposit account number 15-0461.
		05/28/2010 MJAMA1 00000034 12801080
9.	Statement and signature. To the best of my knowledge and belief, the foregoing inform the original document.	nation is true andஹாஜேவூர் any attached copy is a true co <b>ழு ஆ</b> ட்டி
	Stoven his	Date: May 20, 2010
	James A. Oliff, Registration No. 27,075	including cover sheet, attachments, and document: 3

## ASSIGNMENT

		(1) S	higeru SATO	(5)		
(1-8)	Insert		Masato KOYASU			
(x-0)	Name(s) of Inventor(s)		osuke TAKAI			
	or inventor (3)		Masaaki OSHIMA			
		(4)	In consideration of the sur			
		paid to ea	ach of the undersigned, each u			
(9)-1	Insert Name of Assignee	(9)-1	Yamaichi Electronics Co., Ltd.	-		
(10)-1	Insert Address of Assignee	(10)-1 2	8-7, Nakamagome 3-chome, 0	Ohta-ku, Tokyo 14	3-8515, Japan	
(9)-2	Insert Name of Assignee	(9)-2	SONY CORPORATION			
(10)-2	Insert Address of Assignee	(10)-2	-7-1, Konan, Minato-ku, Tok	yo 108-0075, Japan	n	
(11)	Insert Identification such as Title, Case	the entire invention divisiona reissues a	ter designated as the Assignee right, title and interest for the and in all applications for paul, continuation, substitute, and and reexamination certificates	e United States of A atent including any d reissue application	America as defined in 35 and all provisional, non- on(s), and all Letters Pater	U.S.C. §100, in the provisional, nt, extensions,
	Number, or Foreign		v Docket No. 145326			
	Application Number	•	y Docket No. 145326  In the undersigned has (have) e		tion for notone in the ITui	ited States of America
			i the undersigned has (have) e date herewith or	executed an applica	mon for patent in the Oni	ned States of America
(12)	Insert Date of Signing of	(12) on	1-3) 4/13/2010,	4) 4/26/	2010	
	Application	OII	2 3, 1, 13, 2020,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
(13)	Alternative	(13)	U.S. application Serial			
(13)	Alternative  Identification for	Number				
	Identification for filed applications  1) Each undersigned agreement	Number filed ]	MAY 20, 2010 te all papers necessary in conn	ection with any ap	plication and any continu	ring, divisional or
reissue applica any applica the Ass claims reexam Patents full rig and agridentifi	Identification for filed applications  1) Each undersigned agrapplications for the invention tions and patents as the Assi 2) Each undersigned agraphication or continuation or dignee in every way possible 3) Each undersigned agror provisions of the Internati 4) Each undersigned agrination a grant of a valid Un 5) Each undersigned autiof the United States resulting to convey the entire interest that this assignment is b 6) Each undersigned here	Number filed ] ees to execut on, and any per gees to execut division there in obtaining ees to execut in obtaining ees to perfor ited States per horizes and it in gfrom said est herein ass inding on hi eby grants the	MAY 20, 2010  te all papers necessary in connector (s) issuing thereon, and a tem necessary.  te all papers necessary in connector, or any patent or reissue apevidence and going forward value all papers and documents artion for Protection of Industrian all affirmative acts which necessary.	nection with any apalso to execute separate to execute separate to make the polication based the with such interferent and perform any actual Property or similarly be necessary to the U.S. Patent and ignee, as Assignee couted, and will not ssigns and legal reg., PLC the power to	plication and any continuarate assignments in confiderference which may be ereon, for the invention, ance.  which may be necessary illar agreements.  o obtain, maintain or confidered to isseed the entire interest, and execute, any agreements or essentatives.	uing, divisional or nection with such declared concerning and to cooperate with in connection with firm by reissue or sue any and all Letters covenants that he has in conflict herewith,
reissue applica any applica the Ass claims reexam Patents full rig and agridentifi	Identification for filed applications  1) Each undersigned agree applications for the invention tions and patents as the Assi 2) Each undersigned agree in every way possible 3) Each undersigned agree or provisions of the Internati 4) Each undersigned agree in every way possible 5) Each undersigned agree in a grant of a valid Un 5) Each undersigned aution the United States resulting to convey the entire internation to convey the entire internation to to convey the entire internation that may be necessary the cation that may be necessary the same application of this document.	Number filed ] ees to execut on, and any p ignee may de ees to execut livision there in obtaining ees to execut ional Conver ees to perfor ited States p horizes and in g from said est herein ass inding on hi eby grants the y or desirable	MAY 20, 2010  te all papers necessary in connected and papers necessary in connect, or any patent or reissue apevidence and going forward version for Protection of Industrian all affirmative acts which neatent to the Assignee.  requests the Commissioner of application(s) to the said Assigned, and that he has not exem and his heirs, successors, as the firm of OLIFF & BERRIDGE	nection with any apalso to execute separate to execute separate to be polication based the with such interferent property or similarly be necessary to the U.S. Patent and ignee, as Assignee ceuted, and will not sesigns and legal report to the power to rules of the United	plication and any continuarate assignments in confidered which may be ereon, for the invention, and the may be necessary idear agreements. The obtain, maintain or confidered to the entire interest, and execute, any agreements or constant on this assignment on this assignment of the entire of the entire interest, and execute, any agreements or insert on this assignment of the entire of the entire of the execute, any agreements or insert on this assignment of the entire of the entire of the entire interest and the execute, any agreements or execute, any agreements or execute, any agreements of the entire of the e	ding, divisional or nection with such declared concerning and to cooperate with in connection with firm by reissue or sue any and all Letters covenants that he has a in conflict herewith, t any further
reissue applica any appliche Assiciams reexam Patents full rig and agridentifi	Identification for filed applications  1) Each undersigned agree applications for the invention tions and patents as the Assi 2) Each undersigned agree in every way possible 3) Each undersigned agree or provisions of the Internati 4) Each undersigned agree in every way possible 5) Each undersigned agree in a grant of a valid Un 5) Each undersigned aution the United States resulting to convey the entire internation to convey the entire internation to to convey the entire internation that may be necessary the cation that may be necessary the same application of this document.	Number filed ] ees to execut on, and any p ignee may de ees to execut livision there in obtaining ees to execut ional Conver ees to perfor ited States p horizes and in g from said est herein ass inding on hi eby grants the y or desirable	may 20, 2010  te all papers necessary in connected of issuing thereon, and a sem necessary.  te all papers necessary in connect, or any patent or reissue apevidence and going forward water all papers and documents and affirmative acts which matent to the Assignee.  requests the Commissioner of application(s) to the said Assigned, and that he has not exem and his heirs, successors, as the firm of OLIFF & BERRIDGE in order to comply with the results of the said Assigned and the said Assigned and the has not exem and his heirs, successors, as the firm of OLIFF & BERRIDGE in order to comply with the results.	nection with any appalso to execute separate to execute separate to execute separate to execute separate to the u.S. Patent and in the u.	plication and any continuarate assignments in confidered which may be ereon, for the invention, and the may be necessary idear agreements. The obtain, maintain or confidered to the entire interest, and execute, any agreements or constant on this assignment on this assignment of the entire of the entire interest, and execute, any agreements or insert on this assignment of the entire of the entire of the execute, any agreements or insert on this assignment of the entire of the entire of the entire interest and the execute, any agreements or execute, any agreements or execute, any agreements of the entire of the e	ding, divisional or nection with such declared concerning and to cooperate with in connection with firm by reissue or sue any and all Letters covenants that he has a in conflict herewith, t any further
reissue applica any applica any applica claims reexam Patents full rig and agi identifi recorda	Identification for filed applications  1) Each undersigned agree applications for the invention tions and patents as the Assi 2) Each undersigned agree in every way possible 3) Each undersigned agree or provisions of the Internati 4) Each undersigned agree in every way possible 5) Each undersigned agree in a grant of a valid Un 5) Each undersigned aution the United States resulting to convey the entire internation to convey the entire internation to to convey the entire internation that may be necessary the cation that may be necessary the same application of this document.	Number filed ] ees to execut on, and any p ignee may de ees to execut ivision there in obtaining ees to perfor ited States p horizes and in ger from said ist herein ass inding on hi eby grants the y or desirable uted by the	MAY 20, 2010  te all papers necessary in connected to seem necessary. The seem necessary in connect, or any patent or reissue approved to all papers and documents and affirmative acts which matent to the Assignee. The seem not to the seem not and that he has not exem and his heirs, successors, as the firm of OLIFF & BERRIDGE in order to comply with the remarkable on the date(s) of the signed of the signed on the date(s) of the signed of the si	nection with any appalso to execute separate to execute separate to execute separate to execute separate to the u.S. Patent and in the u.	plication and any continuarate assignments in confiderference which may be ereon, for the invention, ance.  which may be necessary illar agreements.  obtain, maintain or confidered to issort the entire interest, and execute, any agreements presentatives.  insert on this assignment States Patent and Tradentsigned name(s).	declared concerning and to cooperate with in connection with firm by reissue or sue any and all Letters covenants that he has an conflict herewith, that any further mark Office for
reissue applica any applica any applica elaims reexam Patents full rig and agridentifit records	Identification for filed applications  1) Each undersigned agree applications for the invention tions and patents as the Assi 2) Each undersigned agree in every way possible 3) Each undersigned agree in every way possible 4) Each undersigned agree in every way for provisions of the Internati 4) Each undersigned agree in a grant of a valid Un 5) Each undersigned aution the United States resulting to convey the entire interest that this assignment is b 6) Each undersigned hereation that may be necessary tion of this document.  In witness whereof, exect	Number filed ] ees to execut on, and any p ignee may de ees to execut livision there in obtaining ees to execut ional Conver ees to perfor ited States p horizes and de est herein ass inding on hi eby grants th y or desirable uted by the	MAY 20, 2010  te all papers necessary in connected in a seem necessary. The all papers necessary in connected, or any patent or reissue approvidence and going forward was all papers and documents and affirmative acts which matent to the Assignee. The application of the said Assigned, and that he has not exemplication of OLIFF & BERRIDGE in order to comply with the remarked on the date(s) of the signature of the	nection with any apalso to execute separate to execute separate to execute separate to be a section with any implication based the with such interferent perform any actual Property or similarly be necessary to the U.S. Patent and gnee, as Assignee secuted, and will not saigns and legal rejected of the United specific of the United specific proposite the under Shigeru SATO  Masato KOYAS  Yosuke TAKAI	plication and any continuarate assignments in confiderence which may be ereon, for the invention, ance. which may be necessary ilar agreements. botain, maintain or confiderence interest, and execute, any agreements presentatives. consert on this assignment States Patent and Tradents signed name(s).	declared concerning and to cooperate with in connection with firm by reissue or sue any and all Letters covenants that he has an conflict herewith, at any further mark Office for
reissue applica any applica any appliche Associations reexam Patents full rig and agr identifi recorda  Date Date	Identification for filed applications  1) Each undersigned agree applications for the invention to the invention of the undersigned agree in the invention of the United States resulting the invention of the undersigned in the invention of the undersigned in the invention of the	Number filed ] ees to execut on, and any p ignee may de ees to execut livision there in obtaining ees to execut ional Conver ees to perfor ited States p horizes and de est herein ass inding on hi eby grants th y or desirable uted by the	MAY 20, 2010  te all papers necessary in connectants) issuing thereon, and a sem necessary.  te all papers necessary in connect, or any patent or reissue apevidence and going forward we all papers and documents artion for Protection of Industrian all affirmative acts which neatent to the Assignee.  requests the Commissioner of application(s) to the said Assigned, and that he has not exem and his heirs, successors, as the firm of OLIFF & BERRIDGE in order to comply with the remarked on the date(s) of the signature of the signatu	nection with any apalso to execute separate to execute separate to execute separate to be a section with any implication based the with such interferent perform any actual Property or similarly be necessary to the U.S. Patent and gnee, as Assignee secuted, and will not saigns and legal rejected of the United specific of the United specific proposite the under Shigeru SATO  Masato KOYAS  Yosuke TAKAI	plication and any continuarate assignments in confiderence which may be ereon, for the invention, ance. which may be necessary ilar agreements. botain, maintain or confiderence interest, and execute, any agreements presentatives. consert on this assignment States Patent and Tradents signed name(s).	declared concerning and to cooperate with in connection with firm by reissue or sue any and all Letters covenants that he has an conflict herewith, that any further mark Office for (SEAL)
reissue applica any app the Ass claims reexam Patents full rig and agr identifi recorda  Date Date Date Date	Identification for filed applications  1) Each undersigned agree applications for the invention tions and patents as the Assi 2) Each undersigned agree of the inversion or continuation or dignee in every way possible 3) Each undersigned agree or provisions of the Internati 4) Each undersigned agree or provisions of the Internati 5) Each undersigned aution a grant of a valid Unit to convey the entire intereses that this assignment is b 6) Each undersigned hereation that may be necessary tion of this document.  In witness whereof, execution that may be a feeced as a second that may be a fe	Number filed ] ees to execut on, and any p ignee may de ees to execut division there in obtaining ees to execut ivision there in obtaining ees to execut ivision there in obtaining ees to perfor itted States p horizes and in g from said est herein assolinding on hi eby grants th y or desirable uted by the	MAY 20, 2010  te all papers necessary in connectent(s) issuing thereon, and a sem necessary.  te all papers necessary in connect, or any patent or reissue apevidence and going forward water all papers and documents and affirmative acts which matent to the Assignee.  requests the Commissioner of application(s) to the said Assigned, and that he has not exem and his heirs, successors, as the firm of OLIFF & BERRIDGE in order to comply with the remarked on the date(s) of the matent of the matent of the date(s) of the	dection with any appalso to execute separatection with any implication based the with such interferent perform any activate Property or similarly be necessary to the U.S. Patent and gence, as Assigned couted, and will not saigns and legal reported by the United proposite the United proposite the under Shigeru SATO  Masato KOYAS  Yosuke TAKAI  Masaaki OSHIN  blic if within the United there:	plication and any continuarate assignments in confidered for the invention, ance.  which may be necessary dar agreements.  obtain, maintain or confidered for the entire interest, and execute, any agreements or execute, and agreement or execute or e	declared concerning and to cooperate with in connection with such in connection with firm by reissue or sue any and all Letters covenants that he has a in conflict herewith, at any further mark Office for (SEAL)  (SEAL)  (SEAL)  (SEAL)
reissue applica any app the Ass claims reexam Patents full rig and agr identifi recorda  Date Date Date Date	Identification for filed applications  1) Each undersigned agree applications for the invention tions and patents as the Assi 2) Each undersigned agree of the inversion or continuation or dignee in every way possible 3) Each undersigned agree or provisions of the Internati 4) Each undersigned agree or provisions of the Internati 5) Each undersigned aution a grant of a valid Unit to convey the entire intereses that this assignment is b 6) Each undersigned hereation that may be necessary tion of this document.  In witness whereof, execution that may be a feeced as a second that may be a fe	Number filed ] ees to execut on, and any period of the control in obtaining ees to execut in obtaining ees to execut in obtaining ees to execut in obtaining ees to perfor inted States perform said of from said inding on his eby grants the control in obtaining on his eby grants the c	MAY 20, 2010  te all papers necessary in connectent(s) issuing thereon, and a sem necessary.  te all papers necessary in connect, or any patent or reissue apevidence and going forward water all papers and documents and affirmative acts which matent to the Assignee.  requests the Commissioner of application(s) to the said Assigned, and that he has not exem and his heirs, successors, as the firm of OLIFF & BERRIDGE in order to comply with the remarked on the date(s) of the matent of the matent of the date(s) of the	dection with any appalso to execute separatection with any implication based the with such interferent perform any activate Property or similarly be necessary to the U.S. Patent and gence, as Assigned couted, and will not saigns and legal reported by the United proposite the United proposite the under Shigeru SATO  Masato KOYAS  Yosuke TAKAI  Masaaki OSHIN  blic if within the United there:	plication and any continuarate assignments in confidered enterior, for the invention, and the enterior, for the invention, and the enterior in the invention, and the enterior in this assignment in the enterior in this assignment in the enterior in the en	declared concerning and to cooperate with in connection with such in connection with firm by reissue or sue any and all Letters covenants that he has a in conflict herewith, at any further mark Office for (SEAL)  (SEAL)  (SEAL)  (SEAL)

PATENT REEL: 024465 FRAME: 0805

A	S	S	T	C	N	h	Æ	$\mathbf{R}$	N	n

		711			
		(1)	Shigeru SATO	(5)	
(1-8)	Insert	(2)	Masato KOYASU	(6)	
	Name(s) of Inventor(s)	(3)	Yosuke TAKAI	(7)	
		(4)	Masaaki OSHIMA	(8)	
		paid to	each of the undersigned, each u		and other good and valuable consideral ssign, and hereby does assign, transfer a
(9)-1	Insert Name of Assignee	(9)-1	Yamaichi Electronics Co., Ltd	l.	
(10)-1	Insert Address of Assignee	(10)-1	28-7, Nakamagome 3-chome,	Ohta-ku, Tokyo 143-8	515, Japan
(9)-2	Insert Name of Assignee	(9)-2	SONY CORPORATION		
(10)-2	Insert Address of Assignee	(10)-2	1-7-1, Konan, Minato-ku, Tok	yo 108-0075, Japan	
(11)	Insert Identification	the ent invent divisio	tire right, title and interest for th ion, and in all applications for p	e United States of Ame atent including any and d reissue application(s)	nuccessors, assigns and legal representatives erica as defined in 35 U.S.C. §100, in the diall provisional, non-provisional, diall Letters Patent, extensions, on the invention known as
	such as Title, Case Number, or Foreign		1/522/		
	Application Number	·	ney Docket No. 145326		
			ich the undersigned has (have) on date herewith or	executed an application	for patent in the United States of Amer
(12)	Insert Date of				
	Signing of	(12) on	1-3) 4/13/2010	, 4) 4/26/201	0
	Application				
12)	Alternative	(13)	U.S. application Serial		
(13)		Numb	ет		
(13)	Identification for filed applications  1) Each undersigned agree	Numb filed	MAY 20, 2010	ection with any applic	ation and any continuing, divisional or
reissue a applicat any app the Assi claims of reexami Patents full righ and agre-	1) Each undersigned agree upplications for the invention one and patents as the Assigned agree in every way possible its as the agree in every way possible its as a gree in every way possible in every way	filed  tes to execute and any gnee may gnee may gnee to execute any gnees	MAY 20, 2010  cute all papers necessary in configuration of second deem necessary.  cute all papers necessary in configuration of configuration of any patent or reissue again evidence and going forward vente all papers and documents at vention for Protection of Industrian of Protection of Industrian all affirmative acts which may patent to the Assignee.  dequests the Commissioner of id application(s) to the said Assigned, and that he has not excluding a signed of the firm of OLIFF & BERRIDGE.	also to execute separate the control with any interfer optication based thereouth the control with such interference, and perform any act which all Property or similar any be necessary to obtain the U.S. Patent and Trignee, as Assignee of the cuted, and will not exessigns and legal repressed, PLC the power to instance of the cuted, and will not exessigns and legal repressed, PLC the power to instance of the cuted, and will not exessigns and legal repressed, PLC the power to instance of the cuted, and will not exessigns and legal repressed.	e assignments in connection with such rence which may be declared concerning, for the invention, and to cooperate witch may be necessary in connection with agreements.  ain, maintain or confirm by reissue or ademark Office to issue any and all Lette entire interest, and covenants that he coute, any agreements in conflict herewit
reissue a applicat any app the Assi claims of reexami Patents full righ and agre-	1) Each undersigned agree upplications for the invention one and patents as the Assig 2) Each undersigned agree in every way possible it 3) Each undersigned agree in every way possible it 3) Each undersigned agree in every way possible it 4) Each undersigned agree in provisions of the International grant of a valid Unit 5) Each undersigned authors the United States resulting to convey the entire interestes that this assignment is bit 6) Each undersigned here eation that may be necessary into of this document.	filed  tes to execute, and any gree may gree may gree to execute to execute the states are to execute the states are the rein anding on the grants or desiral are the states are the rein anding on the grants or desiral are the states are the states are the rein and the grants or desiral are the states are	MAY 20, 2010  cute all papers necessary in configuration of second deem necessary.  cute all papers necessary in configuration of configuration of any patent or reissue again evidence and going forward vente all papers and documents at vention for Protection of Industrian of Protection of Industrian all affirmative acts which may patent to the Assignee.  dequests the Commissioner of id application(s) to the said Assigned, and that he has not excluding a signed of the firm of OLIFF & BERRIDGE.	also to execute separate section with any interfer population based thereowith such interference, and perform any act whital Property or similar analy be necessary to obto the U.S. Patent and Tragnee, as Assignee of the cuted, and will not executed, and will not executed, and legal represent, PLC the power to instructes of the United Stat	rence which may be declared concerning, for the invention, and to cooperate with the series of the invention, and to cooperate with the series of the invention of the invention with the series of the invention
reissue applicat any applicat any applicat any applicat claims of reexami Patents full right and agre dentificat recordat	1) Each undersigned agree upplications for the invention one and patents as the Assig 2) Each undersigned agree in every way possible it 3) Each undersigned agree in every way possible it 3) Each undersigned agree in every way possible it 4) Each undersigned agree in provisions of the International grant of a valid Unit 5) Each undersigned authors the United States resulting to convey the entire interestes that this assignment is bit 6) Each undersigned here eation that may be necessary into of this document.	filed  tes to execute to perfect the states and g from said the execute to execute the execute to execute the execute to execute the	MAY 20, 2010  cute all papers necessary in configuration of patent(s) issuing thereon, and a deem necessary.  cute all papers necessary in configuration of configuration of any patent or reissue are not evidence and going forward with the cute all papers and documents at evention for Protection of Industriation for Protection of Industriation all affirmative acts which may patent to the Assignee.  In the form all affirmative acts which may patent to the Assignee.  In the form and that he has not exchain and his heirs, successors, a the firm of OLIFF & BERRIDGE the in order to comply with the result of the successors.	also to execute separate section with any interfer polication based thereowith such interference. In the property or similar and perform any act which is all Property or similar and be necessary to obtain the U.S. Patent and Transplement, as Assignee of the cuted, and will not exessigns and legal represent, PLC the power to instrules of the United States.	rence which may be declared concerning, for the invention, and to cooperate with the series of the invention, and to cooperate with the series of the invention of the invention with the series of the invention
eissue application application applications of eexami Patents full right and agreed dentification application appl	1) Each undersigned agree applications for the invention ions and patents as the Assig 2) Each undersigned agree in every way possible if 3) Each undersigned agree in every way possible if 3) Each undersigned agree in every way possible if 3) Each undersigned agree in every way possible if 3) Each undersigned agree in every way possible if 4) Each undersigned agree in each in a grant of a valid Unit 5) Each undersigned author the United States resulting to convey the entire interested that this assignment is bit 6) Each undersigned here action that may be necessary ion of this document.  In witness whereof, executions and patents in the interest interest interest interest interest in the interest interes	filed  tes to execute, and any gnee may gnee may gnee may gnee to execute the states of the states and the states and the states of the states	MAY 20, 2010  cute all papers necessary in config patent(s) issuing thereon, and a deem necessary.  cute all papers necessary in configuration of any patent or reissue at any evidence and going forward with the suite all papers and documents at vention for Protection of Industricom all affirmative acts which it is patent to the Assignee. It is a patent to the Assignee of id application(s) to the said Assissigned, and that he has not exchain and his heirs, successors, at the firm of OLIFF & BERRIDGE in order to comply with the suite undersigned on the date(s) of	also to execute separate section with any interfer polication based thereowith such interference. In the property or similar and perform any act which is all Property or similar and be necessary to obtain the U.S. Patent and Transplement, as Assignee of the cuted, and will not exessigns and legal represent, PLC the power to instrules of the United States.	rence which may be declared concerning, for the invention, and to cooperate with the second state of the invention of the invention, and to cooperate with the second state of the invention of t
reissue a applicat any app he Assi claims of reexami Patents full righ and agra- dentific recordat	1) Each undersigned agree upplications for the invention ons and patents as the Assig 2) Each undersigned agree in every way possible it 3) Each undersigned agree in every way possible it 3) Each undersigned agree in every way possible it 4) Each undersigned agree in growisions of the International grant of a valid Unit 5) Each undersigned authors the United States resulting to convey the entire interest est that this assignment is bit 6) Each undersigned here eation that may be necessary in of this document.  In witness whereof, executions and particularly agreed the each of the Country of the Coun	filed  tes to execute, and any gree may be to executivision the resident of the second Converse to perfect of the second Converse and from satisfaction on the grants or desiral atted by the execute of the second Converse and the second converse and the second converse or desiral atted by the execute of the second converse or desiral atted by the execute of the second converse or desiral attentions.	MAY 20, 2010  cute all papers necessary in config patent(s) issuing thereon, and a deem necessary.  cute all papers necessary in configure all papers necessary in configure and going forward with the series of the series and documents at the series and documents at the series and affirmative acts which may be a series and the series are the series are the series and the series are the series are the series are the series are the series and the series are the series a	also to execute separate section with any interfer polication based thereo with such interference. In the property or similar and perform any act which all Property or similar and be necessary to obtain the U.S. Patent and Tragnee, as Assignee of the cuted, and will not exessigns and legal represses. PLC the power to instrules of the United State apposite the undersign Shigeru SATO  Masato KOYASU	rence which may be declared concerning, for the invention, and to cooperate with the series of the invention, and to cooperate with the series of the invention of the invention with the series of the invention
eissue a applicat any app he Assi claims of eexami Patents full righ and agre dentific ecordat  Date  Date  Date	1) Each undersigned agree applications for the invention one and patents as the Assig 2) Each undersigned agree in every way possible it 3) Each undersigned agree in every way possible it 3) Each undersigned agree in every way possible it 3) Each undersigned agree in every way possible it 3) Each undersigned agree in every way possible it 4) Each undersigned agree in extension a grant of a valid Unit 5) Each undersigned authors the United States resulting it to convey the entire interestes that this assignment is bit 6) Each undersigned here extension that may be necessary in of this document.  In witness whereof, executing the extension of the April 26, 20 Ap	filed  tes to execute, and any gree may be to executivision the resident of the second Converse to perfect of the second Converse and from satisfaction on the grants or desiral atted by the execute of the second Converse and the second converse and the second converse or desiral atted by the execute of the second converse or desiral atted by the execute of the second converse or desiral attentions.	MAY 20, 2010  cute all papers necessary in conrect patent(s) issuing thereon, and a deem necessary.  Cute all papers necessary in conrected, or any patent or reissue aging evidence and going forward with the suite all papers and documents at vention for Protection of Industriction all affirmative acts which in a patent to the Assignee.  In the firm of OLIFF & BERRIDGE in order to comply with the interest of the date(s) of the undersigned on the date(s) of the date(s) o	also to execute separate section with any interfer polication based thereo with such interference. In the property or similar and perform any act which all Property or similar and be necessary to obtain the U.S. Patent and Tragnee, as Assignee of the cuted, and will not exessigns and legal represses. PLC the power to instrules of the United State apposite the undersign Shigeru SATO  Masato KOYASU	rence which may be declared concerning, for the invention, and to cooperate with the second state of the invention of the invention, and to cooperate with the second state of the invention of t
reissue a applicat any appliche Assi claims of reexami Patents full right and agredidentific recordat Date Date Date Date	1) Each undersigned agree applications for the invention one and patents as the Assignation or continuation or direction of the undersigned agree in every way possible if a provisions of the Internation of the Undersigned agree in the direction of a valid Unit of the United States resulting to convey the entire interestes that this assignment is bit of) Each undersigned here that the direction of this document.  In witness whereof, execution of the United States of the Company of the April 26, 20 April	filed  ses to execut, and any grace may be set o executivision that in obtaining the set of the states and from said therein and ing on eby grants or desirated by the executivision of the second conditions on the second conditions of the second c	MAY 20, 2010  cute all papers necessary in configuration of patent(s) issuing thereon, and a deem necessary.  cute all papers necessary in configuration of configuration of any patent or reissue are not evidence and going forward with a light papers and documents at cention for Protection of Industriction all affirmative acts which me aparent to the Assignee.  defined requests the Commissioner of id application(s) to the said Assignes and that he has not exceed the firm of OLIFF & BERRIDGE to the firm of OLIFF & BERRIDGE to the in order to comply with the result of the complex of the interest of the	also to execute separate section with any interference. The population based thereowith such interference, and perform any act white all Property or similar any be necessary to obtout the U.S. Patent and Trignee, as Assignee of the united, and will not executed, and will not executed. PLC the power to instruct the united State of	rence which may be declared concerning, for the invention, and to cooperate with the surface many be necessary in connection with agreements.  ain, maintain or confirm by reissue or ademark Office to issue any and all Letter entire interest, and covenants that he cute, any agreements in conflict herewith entatives.  Bert on this assignment any further es Patent and Trademark Office for seed name(s).  Shight Sate (SEAL)  Manuale (SEAL)  Manuale (SEAL)  (SEAL)  (SEAL)
reissue a applicat any appliche Assi claims of reexami Patents full right and agredidentific recordat Date Date Date Date	1) Each undersigned agree applications for the invention one and patents as the Assignation or continuation or discation of the undersigned agree in every way possible if a provisions of the Internation a grant of a valid Unit 5). Each undersigned author the United States resulting to convey the entire interestes that this assignment is bit 6). Each undersigned here eation that may be necessary into of this document.  In witness whereof, executed April 26, 20 April 2	filed  ses to execut, and any grace may be set o executivision that in obtaining the set of the states and from said therein and ing on eby grants or desirated by the executivision of the second conditions on the second conditions of the second c	MAY 20, 2010  cute all papers necessary in configuration of patent(s) issuing thereon, and a deem necessary.  cute all papers necessary in configuration of configuration of any patent or reissue are not evidence and going forward with a light papers and documents at cention for Protection of Industriction all affirmative acts which me aparent to the Assignee.  defined requests the Commissioner of id application(s) to the said Assignes and that he has not exceed the firm of OLIFF & BERRIDGE to the firm of OLIFF & BERRIDGE to the in order to comply with the result of the complex of the interest of the	also to execute separate section with any interference in the such interference. The such interference in the perform any act white all Property or similar any be necessary to obtain the U.S. Patent and Tragnec, as Assignee of the cuted, and will not exessigns and legal represest, PLC the power to instruct of the United State prosite the undersign Shigeru SATO  Masato KOYASU  Yosuke TAKAI  Masaaki OSHIMA  blic if within the U.S.A	rence which may be declared concerning, for the invention, and to cooperate with the surface many be necessary in connection with agreements.  ain, maintain or confirm by reissue or ademark Office to issue any and all Letter entire interest, and covenants that he cute, any agreements in conflict herewith entatives.  Bert on this assignment any further es Patent and Trademark Office for seed name(s).  Shight Sate (SEAL)  Manuale (SEAL)  Manuale (SEAL)  (SEAL)  (SEAL)

PATENT REEL: 024465 FRAME: 0806

**RECORDED: 05/20/2010**