Mail Stop: Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450		PATENTS ONLY	J.S. DEPARTMENT OF COMMERCE Patent and Trademark Office y Docket No. 158791		
	ease record the attached document.		<u> </u>		
1.	A. Name of conveying parties:  1. Yoshinori OSHITA 2. Akira TOKUHISA	2. A. Name and add NIKON CO 12-1, YUR CHIYODA	ress of receiving party:  ORPORATION LAKUCHO 1-CHOME, A-KU, TOKYO 100-8331		
3.	B. Additional name(s) of conveying partial A. Nature of conveyance:	Yes ⊠ No	ne(s) & address(cs) attached?		
٥.	Assignment	erger nange of Name			
4.		Additional numbers attached?   Yes   No			
5.	Name and address of party to whom correconcerning document should be mailed:  Name: Mario A. Costantino  Address: OLIFF & BERRIDGE, PLC P.O. Box 320850  Alexandria, VA 22320-48 Phone Number: 703-836-66 Fax Number: 703-836-278 Email: email@oliff.com	7. Please charge I total fee (37 CF)  50 400 8. Credit any overpaym deposit account num	Deposit Account No. 15-0461 the R 3.41) in the amount of \$40.00.  The content of the amount of the a		
9.	Statement and signature. To the best of my knowledge and belief, the original document.  Mario A. Costantino, Registration No. 33, Todd M. Guise, Registration No. 46,748 Roane T. Noel, Registration No. 63,004	e foregoing information is true and correct and any , Date: <u>Septen</u>	1		

PATENT

REEL: 031262 FRAME: 0871

Date Inventor Signature (SEAL)  This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:  Witness				ASSIGNME	NT			
ABBERGO  of Toverstore(s)  (4)  (5)  (7)  (6)  (8)  In consideration of the sum of one dollar (Si 00) and other good and valuable consideration paid to canh of the undersigned, each undersigned agrees to assign, and hereby does assign, turnsfor and set over to ver to ver to assign.  (8)  Insert Name of Assignee  (8)  (10)  12-1, Yurskucho 1-chome, Chiryoda-ku, TOKYO 100-8331 JAFAN  (hereinstard edispated as the Assignee) and Assignee hear, successors, stripes and legal representatives, the entire right; this entire right, this entire right, this entire right, this chiraction, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitutes, and reasonalization entire right; this entire right with entire right; this entire right with invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitutes, and erises applications (3), and all laters facts, calcamines, releases and reasonalization entirities that may be greated on the invention known as an analysis of the substitute of t			(1)	Yoshinori OSHITA	(5)			
Assignee (9) Assert Name of Assignee (10) LECT NUMBER OF The undersigned, each undersigned, each undersigned agrees to assign, und hereby does aesign, transfer and set over to Assignee (10) LECT Number of Number of Assignee (10) LECT Number of Assignee (10) LECT Number of Number	(1-8)		(2)	Akira TOKUHISA	(6)			
Part Name of Assignse   19		name(s) of Inventor(s)	(3)		(7)			
to each of the undersigned, each undersigned agrees to assign, and hereby does assign, trainefer and et over to Assignee (10) Insert Address of Assignee (10) Insert Assignee (10) Insert I			(4)		(8)			
Assignee (10) Insert Address of Assignee (the reinafter designated as the Assignee) and Assignee's beins, successors, assigns and legal representatives, the entire right, title and impress for the United States of America as defined in 35 U.S.C.(§ 100, in the invention, and in all applications for parent including any and all provisional, originally an interference and all Letters Patient, estebnions, reissues applications, such act or Foreign Application Number (Attorney Docket No. 158791  for Which the undersigned has (lawe) executed an application for patent in the United States of America on even date herewith or (12) Insert Date of Signing of (12) on Application (13) Alternative (13) U.S. application Serial Number 14/003,895  (14) Alternative (15) Alternative (16) Insert date invention, and any parent(s) issuing thereon, and also to execute separate assignments in connection with any application and any continuing, divisional or reissue applications for the invention, and any parent(s) issuing thereon, and also to execute separate assignments in connection with such supplications of adversion of every way possible in obtaining evidence and going forward with such interference.  3) Each undersigned agrees to execute all papers necessary in connection with such interference.  3) Each undersigned agrees to execute all papers necessary  2) Each undersigned agrees to execute all papers necessary.  3) Each undersigned agrees to execute all papers necessary  3) Each undersigned agrees to execute all papers and decomes and perform an aliance and any continuition, and to declare decorreining any applications and patents as the Assignee may deem exceeded.  4) Each undersigned agrees to execute all appers and decomes and perform an aliance of the titure the invention, and to copperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.  5) Each undersigned such orders ano			to eac.	of the undersigned, each undersi				
Insert Address of Assignee   (10)   12-1. Yurakucho 1-chome. Chiyoda-ku, TOKYO 100-8331 JAPAN	(9)		(9)	MIKON CORPORATION	YON CORROR ATION			
(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C.§ 100, in the invention, and in all applications for patent including any and all previous inal, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as a Title, Case Number, or Foreign Application Number  [Altomey Docket No. 158791  [Automey Docket No. 158791  [Aut	(10)	Insert Address of						
Such as Title, Case Number, or Foreign Application Number  for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or on even date herewith or Signing of Signing of (12) on Application  (13) Libert Date of Signing of (12) on Application  (13) Lack undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or relissue applications for filled applications  (13) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or relissue applications for the invention, and any apparent(s) issing the toron, and also to execute separate assignments in connection with such applications and patents as the Assignce may deem necessary.  (2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignce in every way possible in obtaining evidence and going forward with such interference.  (3) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignce in every way possible in obtaining evidence and going forward with such interference.  (3) Each undersigned agrees to execute all papers necessary in connection with any interference which may be necessary in connection with assignment and person and application in the states and the second of the invention of from the invention of the inv	(11)		the en invent division reissu	(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as				
Application Number Application Number Application Number  for which the undersigned has (lawe) executed an application for patent in the United States of America on even data herewith or  (12) Insert Date of Signing of (12) on Application  (13) Alternative (13) U.S. application Serial Number 14/003,895  [14] Insert Date of Signing of (13) U.S. application Serial Number 14/003,895  [15] Insert Date of Signing of Signing of General Serial Number 14/003,895  [16] Applications for the invention, and any patent(t) issuing thereon, and also to execute separate assignments in connection with such applications for the invention, and any patent(t) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignce may deem necessary in connection with any interference which may be declared concerning any applications and patents as the Assignce may deem necessary in connection with any interference which may be declared concerning any application of the inventional convention thereof, or any patent or reissue application based thereon, for the invention, and to concerne with the Assignce in every way possible in obstaining evidence and going forward with each interference.  2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application of the Intermation of Protection of Fluctural Property or similar agreements.  3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with Indian or provided in a contract of the Intermation of Protection of Fluctural Property or similar agreements.  3) Each undersigned admits of the Contract of the Contract of the Intermation of the Intermation of the Intermation of Protection of Fluctural Property or similar agreements.  3) Each undersigned and which has not one of the Intermation is signature in the Intermation of the Intermation of Intermation of Intermation Intermation of Intermation In		such as Title, Case Number, or Foreign			ONE ONLY COMMUNICATION OF E P C MAN	A		
for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or  (12) Insert Date of Signing of (12) on Application  (13) Alternative (13) U.S. application Serial Number 14/003,895  Identification for filed September 9, 2013  1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or recissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.  2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any applications and patents as the Assignee may deem necessary.  2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any applications 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 floward with such interference.  3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with a such interference.  4) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary or connection with claims or provisions of the International Convention of Industrial Property or similar agreements.  5) Each undersigned authorizes and requests 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 at the entire interest, and covenants that he has full right to domive the undersigned and with he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment all folding on him and his heirs, successor, assigns and logal representativ			(A 114.		158791			
on even date herewith or    Signing of Signing Organizations and applications for the invention, and any parent(s) issuing thereon, and also to execute separate assignments in connection with any application and any continuing, divisional or reissue applications for the invention, and any parent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignene may deem necessary.  2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignene in every way possible in obtaining evidence and going floward with such interference.  3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention of Industrial Property or similar agreements.  4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by missue or reexamination a grant of a valid United States patent (or the Assignee.  5) Each undersigned authorizes and requests the Commissioner of Patents to issue any and all Letters Patents of the United States strengthing from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.  5) Each undersig		Application Number		ney Docket No.		į.		
Application  (13) Alternative (13) U.S. application Serial Number 14/003,895  Identification for filed September 9, 2013  1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any parent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.  2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to ecoperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.  3) Each undersigned agrees to perform all affirmative acts which may be necessary in connection with each interference.  4) Each undersigned agrees 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) Each undersigned agrees 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) Each undersigned authorizes and requests 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 covenants that he has full right to donvey the entire interest, and covenants that he has full right to donvey the entire interest, and covenants that he has full right to donvey the entire interest, and covenants that he has full right to donvey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and logal repres					есонев ин аррисации тог рас	in the Office States of America		
Identification for filed applications  filed September 9, 2013  1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.  2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning 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) Each undersigned agrees 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) Each undersigned agrees 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) Each undersigned authorizes and requests 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 covenants that he has full right to donvey the entire interest herein assignment and the has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.  6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, FLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.  In witness whereof, executed by the undersigne	(12)	Signing of	(12)	on	· · · · · · · · · · · · · · · · · · ·	, and the state of		
Identification for filed applications  filed September 9, 2013  1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.  2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning 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) Each undersigned agrees 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) Each undersigned agrees 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) Each undersigned authorizes and requests 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 covenants that he has full right to donvey the entire interest herein assignment and the has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.  6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, FLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.  In witness whereof, executed by the undersigne	(13)	Alternative		U.S. application Serial Number	14/003,8	95		
1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.  2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning 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) Each undersigned agrees 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) Each undersigned agrees 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) Each undersigned agrees to perform all affirmative acts which may be necessary to donor reexamination a grant of a valid United States patent to the Assignee.  5) Each undersigned agrees to perform all affirmative acts which may be necessary to confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.  5) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with a confirmation of the United States patent to the Assignee.  5) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with a construction of the United States patent to the Assignee.  6) Each undersigned agrees to execute all papers and documents and performany agreements in conflict therewith, and agrees that this assignment is binding on him and his heirs, successors,								
In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).  Date Aug. 30, 20/3 Inventor Signature Io shinor; Oshita (SEAL)  Date Aug. 30, 20/3 Inventor Signature Alexa Folkulusa (SEAL)  Date Inventor Signature (SEAL)  This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:	claims of reexami resulting entire in assignm	3) Each undersigned agrees or provisions of the Internation 4) Each undersigned agrees nation a grant of a valid Unit 5) Each undersigned author g from said application(s) to the letterst herein assigned, and the lett is binding on him and his 6) Each undersigned hereby	to execute to perform	ate all papers and documents and vention for Protection of Industria or all affirmative acts which may a patent to the Assignee.  requests the Commissioner of Pa Assignee, as Assignee of the entire on the executed, and will not executed the firm of Oliff & Berridge, represented from of Oliff & Berridge, resident and the firm of Oliff & Berridge, resident was a series of the firm of Oliff & Berridge, resident and the firm of Oliff & Berridge, resident was a series of the firm of Oliff & Berridge, resident and the firm of Oliff & Berridge.	perform any act which may be il Property or similar agreeme be necessary to obtain, main tents to issue any and all Lett e interest, and covenants that ite, any agreements in conflic- sentatives. IC the power to insert on this	nts.  Itain or confirm by reissue or  Itain or confirm by reissue or  Itain or confirm by reissue or  Italian of the United States  Italian of the United St		
Date Aug. 30, 20/3 Inventor Signature To shinor; Oshita (SEAL)  Date Aug. 30, 20/3 Inventor Signature Abris Fokulusa (SEAL)  Date Inventor Signature (SEAL)  This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:  Witness		ion of this document,		• •				
Date Aug. 30, Ze /3 Inventor Signature Akira Fokulusa (SEAL)  Date Inventor Signature (SEAL)  This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:  Witness								
Date Inventor Signature (SEAL)  This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:  Date Witness								
Date Inventor Signature (SEAL)  This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:	Date				Henry toku	(SEAL)		
Date Inventor Signature (SEAL)  Date Inventor Signature (SEAL)  Date Inventor Signature (SEAL)  Date Inventor Signature (SEAL)  This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:  Date Witness	Date		<del></del>	Inventor Signature		(SEAL)		
Date Inventor Signature (SEAL)  Date Inventor Signature (SEAL)  Date Inventor Signature (SEAL)  This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:  Witness	Date	V - MATERIAL PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE P		Inventor Signature		(SEAL)		
Date Inventor Signature (SEAL)  Date Inventor Signature (SEAL)  This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:  Date Witness	Date			Inventor Signature _		(SEAL)		
This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:  Witness	Date			Inventor Signature		(SEAL)		
This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. 1f neither, then it should be signed before at least two witnesses who also sign here:  Witness	Date			Inventor Signature		(SEAL)		
Date Witness	Date .		***************************************	Inventor Signature _		(SEAL)		
P T	neither,	This assignment should pref then it should be signed before	crably be re at leas	signed before: (a) a Notary Publi t two witnesses who also sign her	ic if within the U.S.A. (b) a U c;	.S. Consul if outside the U.S.A. If		
Date Witness	Date .			Witness				
	Date		······································	Witness				

PATENT REEL: 031262 FRAME: 08720 6 6 0 ቦ

RECORDED: 09/09/2013