Mail Stop:

Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450



U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Ale	xandria, VA 22313-1450	j					
		Attorney Docket No. 134771					
	Please record the attached original	ginal document or copy thereof.					
1.	A. Name of conveying party:	2. A. Name and address of receiving party:					
	Jin NISHIKAWA	NIKON CORPORATION					
	B. Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No	2-3, MARUNOUCHI 3-CHOME CHIYODA-KU TOKYO 100-8331 JAPAN					
3.	A. Nature of conveyance:	B. Additional name(s) & address(es) attached?					
		☐Yes ☒ No					
	☐ Security Agreement ☐ Change of Name						
	Other						
	B. Execution Date: November 10, 2008						
4.	This document is being filed together with a new application.						
	A. Patent Application No.(s)	B. Patent No.(s)					
	Additional numbers att	ached?					
<u>A</u>]	C. Title of Application: <u>ILLUMINATION OPTI</u> PPARATUS, AND METHOD FOR PRODU						
5.	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1					
	Name: Mario A. Costantino	7. A. Total fee (37 CFR 3.41)\$ 40.00					
		B. Enclosed (Check No. 212202)					
	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.					
9.	Statement and signature. To the best of my knowledge and belief, the foregoing inform the original document.	nation is true and correct and any attached copy is a rule copy of 11 +0:8521 48.88 09 Date: November 18, 2008					
	Mario A. Costantino, Registration No. 33,565	Daic. 110 venider 10, 2000					
	Scott M. Schulte, Registration No. 44,325	including cover sheet, attachments, and document: 2					

PATENT REEL: 021904 FRAME: 0159

ASSIGNMENT

(1-8)		(1)	JIII	NISHIKAWA	(5)		
	Insert Name(s) of Inventor(s)	(2)					
		(3)					
		(4)					
					llar (\$1.00) and othe	er good and valuable considerations paid to n, and hereby does assign, transfer and set	
(9)	Insert Name of Assignee	(9)	NIKO	N CORPORATION			
(10)	Insert Address of Assignee	(10)	2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-8331 JAPAN				
			America and all p	n as defined in 35 U.S.C. §100, provisional, non-provisional, divis Patent, extensions, reissues and	in the invention, and onal, continuation, s	title and interest for the United States of d in all applications for patent including any substitute, and reissue application(s), and all ficates that may be granted on the invention	
(11)	Insert Identification	(11)	ILLUN	MINATION OPTICAL APP	NATION OPTICAL APPARATUS, EXPOSURE APPARATUS, AND		
	of Invention such as Title, Case		METH	METHOD FOR PRODUCING DEVICE			
	Number, or Foreign Application Number		(Attorn	ey Docket No1347	71		
			for which	h the undersigned has (have) exe	cuted an application	for patent in the United States of America	
(12)	Insert Date of Signing of	(12)	on	November 10, 20	08		
	Application	` ,					
(13)	Alternative Identification for	(13)	U.S. ap	plication Serial Number			
	filed applications		filed	November 18, 2008	3		
any appl the Assi	2) The undersigned lication or continuation gnee in every way po3) The undersigned	n or div ssible i I agree	vision the in obtainings (s) to exe	ereof, or any patent or reissue ap ng evidence and going forward w ecute all papers and documents	olication based there th such interference and perform any act	which may be necessary in connection with	
application any applithe Assignment claims or reexamin United S (they have agreement	2) The undersigned iteration or continuation grae in every way potentially and the undersigned of the unders	n or divine or divine of d	vision the in obtainings to exemple to pe ed States by author entire in eby grant	ereof, or any patent or reissue aping evidence and going forward we ecute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. itze(s) and request(s) the Commit (s) to the said Assignee, as Assigneet herein assigned, and that (s) the firm of OLIFF & BEI	olication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire t he has (they have	eon, for the invention, and to cooperate with which may be necessary in connection with greements. To obtain, maintain or confirm by reissue or to issue any and all Letters Patents of the interest, and hereby covenants that he has a) not executed, and will not execute, any to insert on this assignment any further	
application any applithe Assignment claims or reexamin United S (they have agreement identification	2) The undersigned iteration or continuation grae in every way potentially and the undersigned of the unders	n or divine or divine of d	vision the in obtainings to exemple to pe ed States by author entire in eby grant	ereof, or any patent or reissue aping evidence and going forward we ecute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. itze(s) and request(s) the Commit (s) to the said Assignee, as Assigneet herein assigned, and that (s) the firm of OLIFF & BEI	olication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire t he has (they have	eon, for the invention, and to cooperate with which may be necessary in connection with agreements. To obtain, maintain or confirm by reissue or to issue any and all Letters Patents of the interest, and hereby covenants that he has be not executed, and will not execute, any	
application any applitude Assignment claims of reexamir United Significant (they has agreement identification recordations)	2) The undersigned iteation or continuation gnee in every way por 3) The undersigned or provisions of the Interval of a value of the undersigned of this document.	n or diversible in agreed ernation december agreed and agreed agreed the the tent agreed agre	vision them obtaining (s) to exemple (s) to peed States by author opplication entire in the by grant ary or de	ereof, or any patent or reissue aping evidence and going forward we ecute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. itze(s) and request(s) the Commit (s) to the said Assignee, as Assigneet herein assigned, and that (s) the firm of OLIFF & BEI	olication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire t he has (they have RRIDGE the power ne rules of the Unite	eon, for the invention, and to cooperate with which may be necessary in connection with greements. To obtain, maintain or confirm by reissue or to issue any and all Letters Patents of the interest, and hereby covenants that he has e) not executed, and will not execute, any to insert on this assignment any further ed States Patent and Trademark Office for	
application any applitude Assignment claims of reexamir United Significant (they has agreement identification recordations)	2) The undersigned ideation or continuation gnee in every way por 3) The undersigned or provisions of the Intervention a grant of a validation and the undersigned that it is conflict to convents in conflict herewith the undersigned that it is conflict herewith the undersigned that it is conflict herewith the undersigned that is conflict here with the undersigned that is conflict here.	n or diversible in or diversible in agreementation of agreementation of agreementation of the agreementation o	vision the in obtaining (s) to exemple (s) to peed States by author entire in early or de uted by the ted by the ted by the integral of the ted by the	areof, or any patent or reissue aping evidence and going forward we cute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. Fize(s) and request(s) the Commit (s) to the said Assignee, as Assigneet herein assigned, and that (s) the firm of OLIFF & BEI sirable in order to comply with the undersigned on the date(s) of the sirable of the sirable on the date(s) of the sirable of the sirable on the date(s) of the sirable of the sirable on the date(s) of the sirable of the sirable on the date(s) of the sirable of the sirable on the date(s) of the sirable of the sira	olication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire t he has (they have ne rules of the Unite	eon, for the invention, and to cooperate with which may be necessary in connection with greements. To obtain, maintain or confirm by reissue or to issue any and all Letters Patents of the interest, and hereby covenants that he has e) not executed, and will not execute, any to insert on this assignment any further ed States Patent and Trademark Office for	
application any applithe Assignment claims or reexamin United S (they hat agreement identification recordation	2) The undersigned iteation or continuation gnee in every way por 3) The undersigned or provisions of the Intervention a grant of a value of the undersigned for the u	n or divissible in agree ernation di agree lid Unite di heret said aper ey the lid. di heret eccession execu	vision the in obtainings (s) to exemple the convex of the	areof, or any patent or reissue aping evidence and going forward we cute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. Fize(s) and request(s) the Commit (s) to the said Assignee, as Assigneetherein assigned, and that (s) the firm of OLIFF & BEI sirable in order to comply with the undersigned on the date(s).	olication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire t he has (they have RRIDGE the power he rules of the Unite	eon, for the invention, and to cooperate with which may be necessary in connection with greements. To obtain, maintain or confirm by reissue or to issue any and all Letters Patents of the interest, and hereby covenants that he has e) not executed, and will not execute, any to insert on this assignment any further ed States Patent and Trademark Office for signed name(s).	
application any applithe Assignment claims or reexamin United S (they have agreement identification recordation	2) The undersigned lication or continuation gnee in every way potential of the undersigned of this document. In witness whereof,	n or divissible in agree ernation di agree lid Unite di heret said apertin. di heret secessione execu	vision the in obtainings (s) to exemple the convex of the	areof, or any patent or reissue aping evidence and going forward we exite all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. The Commercian of the Series and request(s) the Commercian of the Series and Assignee, as Assigneet herein assigned, and that the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian of the sirable in order to comply with the commercian order to comply w	olication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire the has (they have RRIDGE the power ne rules of the Unite	eon, for the invention, and to cooperate with which may be necessary in connection with greements. To obtain, maintain or confirm by reissue or to issue any and all Letters Patents of the interest, and hereby covenants that he has e) not executed, and will not execute, any to insert on this assignment any further ed States Patent and Trademark Office for signed name(s). (SEAL)	
application any applithe Assignment claims or reexamin United S (they has agreement identification recordation Date Date	2) The undersigned lication or continuation gnee in every way potential of the undersigned of the undersigne	n or divissible in agree ernation di agree ernation di agree di divisti di heret event di heret	vision the in obtaining (s) to exemple (s) to peed States by author opplication entire in early or de	ereof, or any patent or reissue aping evidence and going forward we cute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. (s) to the said Assignee, as Assisterest herein assigned, and that it is the firm of OLIFF & BEI sirable in order to comply with the undersigned on the date(s) in Name of Inventor Name of Inventor	olication based there th such interference and perform any act Property or similar a may be necessary dissioner of Patents dignee of the entire the has (they have the rules of the Unite popposite the under	to issue any and all Letters Patents of the interest, and hereby covenants that he has e) not executed, and will not execute, any to insert on this assignment any further ed States Patent and Trademark Office for signed name(s). (SEAL)	
application any applithe Assignment claims or reexamin United S (they hat agreement identification recordation Date Date Date	2) The undersigned lication or continuation gnee in every way por 3) The undersigned of provisions of the Interest of the undersigned of the under	n or divissible in agree ernation di agree iid Unitid heret said apey the th. di heret execu	vision the in obtaining (s) to exemple (s) to peed States by author opplication entire in eby grant ary or de	areof, or any patent or reissue aping evidence and going forward we cute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. Fize(s) and request(s) the Commercial erform all affirmative acts which is patent to the Assignee, and request(s) the Commercial erform assigned, and the state of the said Assignee, as Assignees therein assigned, and that the sirable in order to comply with the commercial erformation on the date(s). The sirable in order to comply with the commercial erformation on the date(s) and the sirable in order to comply with the commercial erformation. Name of Inventor Name of Inventor Name of Inventor	olication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire the has (they have RRIDGE the power me rules of the Unite popposite the under	to issue any and all Letters Patents of the interest, and hereby covenants that he has e) not executed, and will not execute, any to insert on this assignment any further ed States Patent and Trademark Office for signed name(s). (SEAL) (SEAL)	
application any applithe Assignment claims or reexamin United S (they have agreement identificate recordation Date Date Date Date	2) The undersigned lication or continuation gnee in every way por 3) The undersigned of the Intervention a grant of a value of the undersigned for	n or divissible in agreed ernation dispersion di dispersion dispersion dispersion dispersion dispersion disper	vision the in obtainings to exemple to peed States by author entire in extending or defended by the control of	areof, or any patent or reissue aping evidence and going forward we cute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. Fize(s) and request(s) the Commit (s) to the said Assignee, as Assigneethere therein assigned, and that it (s) the firm of OLIFF & BEI sirable in order to comply with the undersigned on the date(s). Name of Inventor	olication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire t he has (they have RRIDGE the power ne rules of the Unite	to issue any and all Letters Patents of the interest, and hereby covenants that he has e) not executed, and will not execute, any to insert on this assignment any further ed States Patent and Trademark Office for signed name(s). (SEAL) (SEAL)	
application any applithe Assignment of the Assig	2) The undersigned lication or continuation gnee in every way potential of the undersigned of the undersigne	n or divissible in agree ernation di agree ernation di agree ernation di heret said aprey the thin di heret eccession execu	vision the in obtainings to exemple to be exemple.	areof, or any patent or reissue aping evidence and going forward we cute all papers and documents ention for Protection of Industrial arform all affirmative acts which is patent to the Assignee. (s) to the said Assignee, as Assiterest herein assigned, and that it is the firm of OLIFF & BEI sirable in order to comply with the undersigned on the date(s) in Name of Inventor	olication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire t he has (they have RRIDGE the power ne rules of the Unite	to issue any and all Letters Patents of the interest, and hereby covenants that he has e) not executed, and will not execute, any to insert on this assignment any further ed States Patent and Trademark Office for signed name(s). (SEAL) (SEAL) (SEAL)	
application any applithe Assignment of the Assig	2) The undersigned lication or continuation gnee in every way por 3) The undersigned of provisions of the Interest of the United States resulting from the United States (States of States of	n or divissible in agree ernation di agree ernation di agree ernation di heret said aprey the thin di heret eccession execu	vision the in obtainings to exemple to be exemple.	areof, or any patent or reissue aping evidence and going forward we cute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. The Commercial erform all affirmative acts which is patent to the Assignee, as Assignee, and request(s) the Commercial erform of the Commercial erform assignee, as Assignees	olication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire the has (they have RRIDGE the power me rules of the Unite opposite the under	to issue any and all Letters Patents of the interest, and hereby covenants that he has encested and will not execute, any to insert on this assignment any further ed States Patent and Trademark Office for signed name(s). (SEAL) (SEAL) (SEAL) (SEAL)	
application any applithe Assignment of the Assig	2) The undersigned lication or continuation gnee in every way por 3) The undersigned of the Intervention a grant of a valuation and the undersigned fatters resulting from the intervention conflict herewith the undersigned from which may be read to not this document. In witness whereof,	n or divissible in agree ernation di agree ernation di agree ernation di heret said aprey the thin di heret eccession execu	vision the in obtainings to exemple to be exemple to be exemple. The exemple to be exemple to be exemple to be exemple to be exemple to the exemple to be exemple.	areof, or any patent or reissue aping evidence and going forward we cute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. Fize(s) and request(s) the Commit (s) to the said Assignee, as Assigneethere therein assigned, and that it (s) the firm of OLIFF & BEI sirable in order to comply with the undersigned on the date(s). Name of Inventor	olication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire the has (they have re rules of the Unite popposite the under	to issue any and all Letters Patents of the interest, and hereby covenants that he has en on executed, and will not execute, any to insert on this assignment any further ed States Patent and Trademark Office for signed name(s). (SEAL) (SEAL) (SEAL) (SEAL)	
application any applithe Assignment of the Assig	2) The undersigned lication or continuation gnee in every way potential of the undersigned of the undersigne	n or divissible in agree ernation di agree ernation di heret said apey the th. di heret secession execution e	vision the in obtainings (s) to exemple the converse of the co	ereof, or any patent or reissue aping evidence and going forward we cute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. ize(s) and request(s) the Commit (s) to the said Assignee, as Assignee, as Assignee as Assignee and the extrement of the comply with the extrement of the comply with the extrement of t	collication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire the has (they have RRIDGE the power ne rules of the Unite Deposite the under	to issue any and all Letters Patents of the interest, and hereby covenants that he has e) not executed, and will not execute, any to insert on this assignment any further ed States Patent and Trademark Office for signed name(s). (SEAL) (SEAL) (SEAL) (SEAL) (SEAL)	
application any applithe Assignment of the Assig	2) The undersigned lication or continuation gnee in every way potential of the undersigned of the undersigne	n or divisible in agree ernatio di agree lid Unite di heret said apey the thin di heret secessione execution.	vision the in obtaining (s) to exemple (s) to peed States by author entire in entire in entire in the by grant entire in the by the control of the control o	areof, or any patent or reissue aping evidence and going forward we cute all papers and documents ention for Protection of Industrial erform all affirmative acts which is patent to the Assignee. Fize(s) and request(s) the Common (s) to the said Assignee, as Assignees therein assigned, and that the sirable in order to comply with the undersigned on the date(s). The Name of Inventor.	collication based there th such interference and perform any act Property or similar a may be necessary issioner of Patents ignee of the entire the has (they have re rules of the Unite popposite the under	to issue any and all Letters Patents of the interest, and hereby covenants that he has an interest, and hereby covenants that he has an interest, and hereby covenants that he has an interest of the interest, and hereby covenants that he has an interest, and hereby covenants that he has an interest on this assignment any further and States Patent and Trademark Office for signed name(s). (SEAL) (SEAL) (SEAL) (SEAL) (SEAL) (SEAL)	

RECORDED: 11/18/2008

PATENT REEL: 021904 FRAME: 0160