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Attorney Docket No.

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1.	A. Name of conveying parties:	2. A. Name and address of receiving party:						
	 (1) Hiroshi AOKI (2) Masaki TORIMURA (3) Hiroaki TAO (4) Takashi IKEDA B. Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No 	NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY 3-1, KASUMIGASEKI 1-CHOME, CHIYODA-KU TOKYO 100-8921, JAPAN						
3.	A. Nature of conveyance:	B. Additional name(s) & address(es) attached? ☐Yes ☑ No						
	Assignment							
	Security Agreement Change of Name							
	Other							
i I	B. Execution Date: <u>1-3) April 7, 2009;</u> 4) April 6, 2009							
4.	This document is being filed together with a new application.							
	A. Patent Application No.(s)	B. Patent No.(s)						
	Additional numbers atta	iched? 🔲 Yes 🖾 No						
	C. Title of Application: VARIABLE PITCH ARRAY	SPOTTER						
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)						
		B. Englesed (2009 DBYRME 00000006 12385755						
	Address: OLIFF & BERRIDGE, PLC P.O. Box 320850 Alexandria, VA 22320-4850	8. Credit any overpayment or charge any underpayme 101 00 0P deposit account number 15-0461.						
9.	To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original decupient							
	James A. Oliff Stephen P. Catlin Registration No. 27,075 Registration No. 36,101 Total number of pages including cover sheet, attachments, and document: 3							

ASSIGNMENT

		(1)	Hiroshi AOKI	(4)Takas	hi IKEDA		
(1-8)	Insert Name(s) of Inventor(s)	(2)	Masaki TORIMURA	<u> </u>			
		(3)	Hiroaki TAO		·		
•		In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to					
(9)	Insert Name of Assignee	(9)	NATIONAL INSTITUTE OF A	DVANCED INDUSTRIA	AL SCIENCE AND TECHNO	DLOGY	
(10)	Insert Address of Assigned		3-1, Kasumigaseki 1-chome, C				
		(hereinafter designated as the Assignce) and Assignce'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					
(11)	Insert	(11)	VARIABLE PITCH ARRAY	SPOTTER			
	Identification such as Title, Case		<u> </u>				
•	Number, or Foreign Application Number	(Attori					
	Approacion indiance	•	ch the undersigned has (have) e			'7	
		оп еус	date herewith or				
(12)	Insert Date of Signing of	(12)					
	Application	on					
(13)	Alternative	(13) Numbe	U.S. application Serial				
	Identification for filed applications	filed					
applicate any app the Assisted claims of reexaming the Patents full right and agree identifications.	applications for the invention ions and patents as the Assig 2) Each undersigned agrelication or continuation or dispersion every way possible in Each undersigned agreer provisions of the Internation 4) Each undersigned agreemation a grant of a valid Unit 5) Each undersigned author the United States resulting at to convey the entire interested that this assignment is bit 6) Each undersigned here eation that may be necessary thin of this document.	n, and any mee may es to executivision the nobtaining es to execute to perfeted States and therein anding on the strate or desirable or desirable.	ute all papers necessary in connicted, or any patent or reissue apgevidence and going forward wite all papers and documents an ention for Protection of Industriorm all affirmative acts which makent to the Assignee. I requests the Commissioner of application(s) to the said Assissigned, and that he has not exemin and his heirs, successors, as the firm of OLIFF & BERRIDGE lie in order to comply with the result of the said application of the said Assissigned, and that he has not exemin and his heirs, successors, as the firm of OLIFF & BERRIDGE lie in order to comply with the results.	ection with any interfere plication based thereon, with such interference. It is property or similar ago any be necessary to obtain the U.S. Patent and Tradegnee, as Assignee of the cuted, and will not execusing any be property or similar ago, as Assignee of the cuted, and will not execusing and legal representatives of the United States	ence which may be declared for the invention, and to continuously in may be necessary in connected that it is not confirmed to the invention, and to continue the invention of t	ith such concerning operate with ction with cissue or and all Letters ts that he has cet herewith,	
	In witness whereof, execu	ted by the	undersigned on the date(s) o	115 / 5	d name(s).		
Date	4/7 200	9	Inventor Signature	Minish	Torimura	(SEAL)	
Date	4/7, 2009	1	Inventor Signature	masaks	7	(SEAL)	
Date	1111 2007		Inventor Signature	zpiroak	100	(SEAL)	
Date			Inventor Signature			(SEAL)	
Date			Inventor Signature Inventor Signature			(SEAL)	
Date		_				(SEAL)	
Date	This assignment should pre		Inventor Signature signed before: (a) a Notary Pub			(SEAL) the U.S.A.	
If neithe			ast two witnesses who also sign	here:	2.6.)	1	
Date	April 8, 2	00 7	Witness		2 widita	mayaski	
Date	April 8. 200	7	Witness _	Yuichiro OTAKE	E MWWWY (EXILIKO/	

PATENT REEL: 022613 FRAME: 0414

ASSIGNMENT

		(1) <u>H</u>	iroshi AOKI		(4)	Takashi IKEDA				
(1 -8)	Insert Name(s) of Inventor(s)	(2) <u>\lambda</u>	lasaki TORIMU	IRA						
		(3) <u>H</u>	iroaki TAO							
	. *	In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to								
(9)	Insert Name of Assignee	(9) N	IATIONAL INS	CTOUTE OF ADVA	NCED INDI	STRIAL SCIENCE AND TI	FCHNOLOGY			
(10)	Insert Address of Assignee.									
	Assignee	(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								
(11)	Insert Identification	(11) _	ARIABLE PIT	CH ARRAY SPOT	TER					
	such as Title, Case		<u></u>	·						
	Number, or Foreign Application Number	(Attorney	Docket No.)			
	Application Number (Attorney Docket No. 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	(12)				•				
	Signing of	(12) on				· 				
	Application									
(13)	Alternative	(13) U.S. application Serial Number								
	Identification for filed applications	filed _								
applica any app the Ass claims reexam Patents full right and agr identifi	applications for the invention and patents as the Assi 2) Each undersigned agreelication or continuation or dignee in every way possible in 3) Each undersigned agree or provisions of the Internation 4) Each undersigned agree ination a grant of a valid United States resulting the United States resulting the Convey the entire interestes that this assignment is bid. Each undersigned here cation that may be necessary tion of this document.	gnee may decest to execute ivision there in obtaining in obtaining the control on the control on the control of	en necessary. c all papers necessary. c all papers necessary. c all papers and the Assicutes the Consplication(s) to gened, and that I mand his heirs, the firm of OLIFF	essary in connection to reissue applicating forward with so documents and perion of Industrial Presents which may be gue. In issioner of the United the said Assigned, the has not executed successors, assign. & Berridge, Plo	n with any in tion based th uch interfere- rform any act operty or sime e necessary to S. Patent an as Assignee to and legal re- title power to	terference which may be decreon, for the invention, an ince. I which may be necessary in ilar agreements. I obtain, maintain or confirm of the entire interest, and contains any agreements in presentatives.	eclared concerning d to cooperate with a connection with m by reissue or e any and all Letters ovenants that he has a conflict herewith,			
	In witness whereof, execu	ited by the u								
Date	,		Invento	r Signature		· ·	(SEAL)			
Date			Invento	r Signature	· · · · · · · · · · · · · · · · · · ·		(SEAL)			
Date			_	r Signature	- 4		(SEAL)			
Date	April 6, 2	2007	Invento	r Signature	Takasi	is iteda	(SEAL)			
Date			Invento	r Signature			(SEAL)			
Date			Invento	r Signature		·	(SEAL)			
Date			Invento	r Signature			(SEAL)			
If neith	This assignment should pre er, then it should be signed b	eferably be si before at leas	gned before: (a t two witnesses	who also sign here	: .					
Date	April 8, 2			Witness	Taeko KO	BAYASHI Jaeba DTAKE YNIGHTY	Kofrayashi			
Date	April 8- 200	7.	`	Witness	Yuichiro C	DTAKE Ynights	2 Hiake			

RECORDED: 04/17/2009

PATENT REEL: 022613 FRAME: 0415