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Director of the U.S. Patent and Trademark Office **Box Assignments**

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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office Washington, D.C. 20231 Attorney Docket No. 113003 To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof. 1. A. Name of conveying party: Name and address of receiving party: Takeo KAWASE SEIKO EPSON CORPORATION 4-1, NISHISHINJUKU 2-CHOME, SHINJUKU-KU, TOKYO 163-0811, JAPAN Additional name(s) of conveying party(ies) attached? ☐ Yes 🛛 No Nature of conveyance: Additional name(s) & address(es) attached? ☐Yes ⊠ No Assignment ☐ Merger Security Agreement ☐ Change of Name Other_ Execution Date: July 2, 2002 If this document is being filed together with a new application, the execution date of the application is: Patent Application No.(s) 10/149,392 C. Patent No.(s) ___ Name and address of party to whom correspondence Total number of applications and patents involved: 1 concerning document should be mailed: Name: James A. Oliff B. Enclosed (Check No. 132510) OLIFF & BERRIDGE, PLC Credit any overpayment or charge any underpayment to P.O. Box 19928 deposit account number 15-0461. Alexandria, VA 22320 00000094 10149392 REYE Statement and signature. 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 document. Date: July 12, 2002 James A. oliff Registration No. 27,075 Joel S. Armstrong Registration No. 36,430 Total number of pages including cover sheet, attachments, and document: 2

> **PATENT** REEL: 13233 FRAME: 0574

ASSIGNMENT

		(1)	Takeo KAWASE	(5)	
(1-8)	Insert Name(s) of Inventor(s)	(2)		(6)	
		(3)		(7)	
		(4)		(8)	
		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)	Seiko Epson Corporation		
(10)	Insert Address of Assignee	(10)	4-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo 163-0811, Japan		
		(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, he 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 Such as Title, Case Number, or Foreign Application Number	(11)	Etching Process		
			70		
		(Attor	ney Docket No.	13003))
			h the undersigned has (have) execute herewith or	ited an application for patent in the United	States of America on
(12)	Insert Date of Signing of Application	(12)	on July 2, 200	02	
(13)	Alternative identification for filed applications	(13)	U.S. application Serial number	10/149,392	
		filed	July 12, 2002		
applica in ever provisi a gran applica herein him ar	ation or continuation or cy way possible in obtains 3) Each undersigned a tons of the International 4) Each undersigned at of a valid United States 5) Each undersigned a ation(s) to the said Assignation(s) to the said Assignation to the said A	grees to e division th ing eviden grees to e Conventio grees to p patent to uthorizes inee, as As is not execussigns an iereby gra	xecute all papers necessary in conniereof, or any patent or reissue appice and going forward with such intixecute all papers and documents and for Protection of Industrial Properform all affirmative acts which the Assignee. and requests the Director of Patensignee of the entire interest, and counted, and will not execute, any agrid legal representatives. Into the firm of OLLIFF & BERRIDGE.	id perform any act which may be necessary	of to cooperate with the Assignee of in connection with claims or affirm by reissue or reexamination the United States resulting from said the entire interest at this assignment is binding ou and any further identification that
	•		the undersigned on the date(s) opp		
Date	July 2, 2002				(SEAL)
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Date			Inventor Signature		(CIDATA
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Date					
Date			Inventor Cignoture		(CITO A T)
Date			Inventor Signature _		(CELT)
neithe			oly be signed before: (a) a Notary P at least two witnesses who also sign	•	
Date	2 July	2002	Witness	Moles a	bon

Date 2 July 2002 Witness

RECORDED: 07/12/2002

REEL: 13233 FRAME: 0575