To the Director of the U.S Patent and Trademark Office: Please record the attached original documents or copy thereof.  1. Name of conveying partry(ies): Takakazar RUK ANO Hiroaki TOJO (deceased)  Additional name(s) of conveying partry(ies) attached? Pyes No  3. Nature of conveying partry(ies): Additional name(s) of conveying partry(ies) attached? Pyes No  3. Nature of conveyance: Other  Security Agreement Change of Name Other  Execution Date: May 20, 2003 and May 28, 2003  A Additional name(s) & address(se) attached? Pyes No  102738036  Additional name(s) & address(se) attached? Pyes No  Additional name(s) & address(se) attached? Pyes No  Additional name(s) & address(se) attached? Pyes No  Name and address of party to whom correspondence concerning document should be mailed: SUGHRUE MION, PLLC WASHINGTON OFFICE  23373 CUSTOMAR SUMMERS  DO NOT USE THIS SPACE  9. Statement and signature. To the best of pyt knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original documents of pages including cover sheet, attachments, and documents: 3  Mail documents to be recorded with required cover sheet information to:  10 NOT USE THIS SPACE  April 20 2004  Darryl Mexicology Policy in Spirity Recorded Thio SickNUCES Director of the U.S. Patent and Trademark Office P.O. Box 1450  Director of the U.S. Patent and Trademark Office P.O. Box 1450	MODIFIED Form PTO-1595 RECORDATION	FORM COVER SHEET  U.S. DEPARTMENT OF COMMERCE			
1. Name of conveying party(ies): Takakazar EUKANO Hiroaki TOJO (deceased)  Additional name(s) of conveying party(ies) attached?   Ves   No  3. Nature of conveyance:   Assignment   Merger     Security Agreement   Change of Name     Other     Other     Additional name(s) or patent number(s):   If this document is being filed together with a new application, the execution date of the application is: May 20, 2003 and May 28, 2003 A. Patent Application No.(s)     10411,349     Additional numbers attached?   Yes   No  5. Name and address of party to whom correspondence concerning document should be mailed:   SUGHRUE MION, PLLC     WASHINSTON OFFEE     23373     CUSTOMER NUMBER     Customer and signature. To the best of pro knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.    Darryl Mekit     Darryl Mekit     Darryl Mekit     Darryl Mekit     Darryl Mall NIOP ASSIGNMENT RECORDATION SERVICES     Director of the U.S. Patent and Trademark Office     P.O. Box 1450     Darryl Mall NIOP ASSIGNMENT RECORDATION SERVICES     Director of the U.S. Patent and Trademark Office     P.O. Box 1450     Darryl Mekit     Darryl Mekit     Darryl Mekit     Darryl Mekit     Darryl Mekit     Darryl Mekit	(Rev. 10/02) ( , PATE	NTS ONLY  U.S. Patent and Trademark Office			
SEIKO EPSON CORPORATION   4-1 Nishi-shrijuku 2-chome, Shirjuku-ku, Tokyo, Japan   102738036   102738	To the Director of the U.S. Patent and Trademark Office				
Additional name(s) of conveying party(ies) attached?	Takakazu FUKANO Hiroaki TOJO (deceased)	SEIKO EPSON CORPORATION 4-1 Nishi-shinjuku 2-chome, Shinjuku-ku,			
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Security Agreement   Change of Name   Other					
□ Security Agreement □ Change of Name □ Other  Execution Date: May 20, 2003 and May 28, 2003  4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of the application is: May 20, 2003 and May 28, 2003  A. Patent Application No.(s) 10/411,349  Additional numbers attached? □ Yes ☑ No  5. Name and address of party to whom correspondence concerning document should be mailed:  SUGHRUE MION, PLLC  WASHINGTON OFFICE  23373  CUSTONER NUMBER  CUSTONER NUMBER  DO NOT USE THIS SPACE  9. 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.  April 20, 2004  Application numbers attached? □ Yes ☑ No  6. Total number of applications and patents involved: 1  To tal fee (37 CFR 3.41): \$40.00 ☑ Enclosed. □ Authorized to be charged to Deposit Account No. 19-4880. The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. (Attach duplicate copy of this page if paying by deposit account)  DO NOT USE THIS SPACE  9. 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.  U	☑ Assignment ☐ Merger	102738036			
Additional name(s) & address(es) attached?	· ·				
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A. Patent Application No.(s) 10/411,349  Additional numbers attached?	If this document is being filed together with a new application, the execution date of the application is: May 20, 2003 and May				
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5. Name and address of party to whom correspondence concerning document should be mailed:  SUGHRUE MION, PLLC  WASHINGTON OFFICE  23373  CUSTOMER NUMBER  CUSTOMER NUMBER  CUSTOMER NUMBER  CUSTOMER NUMBER  CUSTOMER NUMBER  CUSTOMER NUMBER  6. Total number of applications and patents involved:  1  7. Total fee (37 CFR 3.41): \$40.00  CUSTOMER SUGNET SU	Additional numbers a	  ttached?			
SUGHRUE MION, PLLC  WASHINGTON OFFICE  23373  CUSTOMER NUMBER  CUSTOMER NUMBER  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.  Total number of pages including cover sheet, attachments, and documents: 3  Mail documents to be recorded with required cover sheet information to:  MAIL STOP ASSIGNMENT RECORDATION SERVICES  Director of the USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.  8. Deposit Account Number:  19-4880  (Attach duplicate copy of this page if paying by deposit account)  DO NOT USE THIS SPACE  9. 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.  4 1 2 7 8 April 2004  Date  Total number of pages including cover sheet, attachments, and documents: 3  Mail documents to be recorded with required cover sheet information to:  MAIL STOP ASSIGNMENT RECORDATION SERVICES  Director of the U.S. Patent and Trademark Office  P.O. Box 1450	5. Name and address of party to whom correspondence				
WASHINGTON OFFICE  23373 CUSTOMER NUMBER  Denote the USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.  8. Deposit Account Number:  19-4880 (Attach duplicate copy of this page if paying by deposit account)  DO NOT USE THIS SPACE  9. 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.  41,278 April 2004 Darryl Mexic Reg. No. 23,063 Date  Total number of pages including cover sheet, attachments, and documents: 3  Mail documents to be recorded with required cover sheet information to:  MAIL STOP ASSIGNMENT RECORDATION SERVICES Director of the U.S. Patent and Trademark Office P.O. Box 1450		7. Total fee (37 CFR 3.41): \$40.00			
The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.  8. Deposit Account Number:  19-4880  (Attach duplicate copy of this page if paying by deposit account)  DO NOT USE THIS SPACE  9. 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.  41 27 8  April 2004  Date  Total number of pages including cover sheet, attachments, and documents: 3  Mail documents to be recorded with required cover sheet information to:  MAIL STOP ASSIGNMENT RECORDATION SERVICES  Director of the U.S. Patent and Trademark Office  P.O. Box 1450	·				
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8. Deposit Account Number:  19-4880 (Attach duplicate copy of this page if paying by deposit account)  DO NOT USE THIS SPACE  9. 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.    Comparison of the description	CUSTOMER NUMBER	fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said			
9. 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.  April 2004  Reg. No. 23,063  Total number of pages including cover sheet, attachments, and documents: 3  Mail documents to be recorded with required cover sheet information to:  MAIL STOP ASSIGNMENT RECORDATION SERVICES  Director of the U.S. Patent and Trademark Office  P.O. Box 1450		8. Deposit Account Number:			
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Alexandria, VA 22313-1450					

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PATENT REEL: 015282 FRAME: 0125

RECO U.S. DEPARTMENT OF COMMERCE (Rev. 10/02) U.S. Patent and Trademark Office To the Director of the U.S. Patent and Tra the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Takakazu FUKANO SEIKO EPSON CORPORATION Hiroaki TOJO (deceased) 4-1. Nishishi-shinjuku 2-chome, AUG 0 5 200 Shinjuku-ku, Tokyo, Japan Additional name(s) of conveying party(ics) attached? 

Yes 

No 3. Nature of conveyance: ☑ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name Execution Date: May 20, 2003 and May 28, 2003, Respectively Additional name(s) & address(es) attached? 

Yes 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: May 20, 2003, and May 28, 2003, Respectively A. Patent Application No.(s) B. Patent No.(s) 10/411,349 Unknown Additional numbers attached? ☐ Yes ☑ No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: SUGHRUE MION, PLLC 7. Total fee (37 CFR 3.41): \$40.00 WASHINGTON OFFICE Enclosed. ☐ Authorized to be charged to Deposit Account No. 19-4880. 23373 The USPTO is directed and authorized to charge all required CUSTOMER NUMBER fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. 8. Deposit Account Number: 19-4880 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. 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 documes

Darryl Mexic

August 5, 2003

Date

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Alexandria, VA 22313-1450

08/07/2003 DRYRNE 00000112 10411349 40.00 OP 01 FC:8021

Seiko Epson Ref. No.: F007936US00/TP

## 譲渡証(Translation/日本語訳)

下記に署名した私、

深野 孝和 および 東條 登志子は、

ある発明を創出し、これについて合衆国特許出願は

□ ここに私により署名され、○ 2003 年 4 月 11 日に出願され、出願番号10/411,349が交付され、

その発明は

印刷装置および印刷装置の制御プログラム

という名称である。 そして、ここにその受領を認める対価で:私は、当該発明/出願について、合衆国とその属領及び全ての外国に於ける全面的かつ独占的な権利;合衆国とその属領及び全ての外国に於いて発行される特許証に関わる全ての権利、所有権、利益; 一部継続出願、継続出願、分割出願、差替え出願、再発行出願、特許期間延長等、合衆国とその属領及び全ての外国に於いて既に出願されたか若しくは今後出願される特許に関わる全ての権利;そして、国際条約、同盟、契約、法令、協定(将来制定されるものを含む)に基づく全ての優先権を伴う一切の権利;を、日本国東京都新宿区西新宿2丁目4番1号に住所を有するセイコーエブソン株式会社、その後継者、譲受人及び法定代理人に対して、売却、譲渡、移転するものとする。

さらに、私は、セイコーエプソン株式会社(以下譲受人と言う) が単数ないしは複数の当該発明(以下当該発明という)に関わ る特許権を、自己の名により、合衆国とその属領及び全ての外 国に於いて出願し、特許を受けること;またこの譲渡証の意図 と目的を誠実に実行することを求められた場合、下記に署名し た私が、当該譲受人、その後継者、その被譲渡者、及び法定代 理人の費用負担にて、一部継続出願、継続出願、分割出願、差 替え出願、再発行出願、特許期間延長等を行い、合法的宣誓書、 譲渡証、委任状等の書類を作成し、あらゆる法的または準法的 訴訟手続に於いて証言を行うこと; 当該発明とその経緯に関連 して、下記に署名した私が知り得た全ての事実を、当該譲受人、 後継者、被譲渡者、及び法定代理人に連絡すること;そして当 該譲受人、後継者、被譲渡者、及び法定代理人が、当該発明の 特許権の適切な保護、維持、権利行使するために望ましいと考 慮すること、また、当該発明に関わる特許出願に際し、当該譲 受人、後継者、被譲渡者、及び法定代理人に対して法的権限を 付与することが望ましいと考慮することについて、可能な限り 行うことを承諾する。

## Assignment

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

## Takakazu FUKANO and Toshiko TOJO.

who have created a certain invention for which an application for United States Letters Patent

executed by me on even date herewith,

filed on April 11, 2003 and assigned Serial No. 10/411.349.

and entitled:

PRINTING DEVICE, AND CONTROL OF PRINTING DEVICE

Do hereby sell, assign and transfer to Seiko Epson Corporation, a corporation of Japan, having a place of business at 4-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo, Japan, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part. continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that Seiko Epson Corporation, hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-inpart, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing. maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors. assigns, or legal representatives; and

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PATENT REEL: 015282 FRAME: 0127

## Seiko Epson Ref. No.: F007936US00/TP

そして、私は、この書面により譲渡された権利や財産に影響す(Covenant with said Assignee, its successors, assigns, or legal とを、当該譲受人、後継者、被譲渡者、及び法定代理人に対し て誓約するものである。

よってのみ解釈されることに同意する。

上記を証明するため、私は下記日付で署名する。

る、如何なる譲渡、授権、抵当権、ライセンス等その他の協定 representatives that no assignment, grant, mortgage, license or も他の第三者との間で行っていないこと; 下記に署名した私 other agreement affecting the rights and property herein conveyed によって、この書面に記載されている権利が所有されているこ has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

さらに、下記に署名した私はこの譲渡書は英語の部分の表現に I, the undersigned do further agree that this Assignment is to be construed solely according to the terms of the English language portions thereof.

> IN TESTIMONY WHEREOF I have hereunto set MY signature seal on the date indicated below.

唯一または第一発明者名		Full name of sole or first inventor	
深野 孝和		Takakazu FUKANO	
発明者の署名	日付	Inventor's signature	Date
深野孝和	2003. 5.20	Takakagu Fukano	20/May/2003
第二共同発明者 (いる場合)		Full name of second joint inventor, if any	/
東條 登志子		Toshiko TOJO,	
死去した東條博明氏に代わり、署名の権限を与えられた法 定代理人		Legal Representative who is authorized to sign on behalf of Mr. Hiroaki TOJO, who is deceased.	
第二共同発明者の署名	日付	Second Inventor's signature	Date
東條登志子	2003. 5.28	Toshiko Tojo	May 28, 2003
第三共同発明者(いる場合)		Full name of third joint inventor, if any	
第三共同発明者の署名	日付	Third Inventor's signature	Date
第四共同発明者(いる場合)		Full name of fourth joint inventor, if any	
第四共同発明者の署名	日付	Fourth Inventor's signature	Date
第五共同発明者(いる場合)		Full name of fifth joint inventor, if any	
第五共同発明者の署名	日付	Fifth Inventor's signature	Date
第六共同発明者 (いる場合)		Full name of sixth joint inventor, if any	
第六共同発明者の署名	日付	Sixth Inventor's signature	Date
第七共同発明者 (いる場合)		Full name of seventh joint inventor, if any	
第七共同発明者の署名	日付	Seventh Inventor's signature	Date

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**PATENT** REEL: 015282 FRAME: 0128