BÖX ASSIGNMENTS	∩	9-30-2003			DO NOT USE	FOR TRADEMARKS
				HEET IS ONLY		
TO THE DIRECTOR OF SIR: PLEASE RECORD	TITE OC	02562384		THERE	OF.	
1. NAME OF CONVEYING						
1. Steven T. FINK			2.			T
3. 5.			4. 6.	_		
5. 7.			8.	9-	-22-67	
5. 7. 8. 9-22-6 3 ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? \square YES \square NO						
2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:						
NAME: Tokyo Electron L	imited					
ADDRESS: 3-6, Akasaka	a 5-chome, Minato-k	ku, Tokyo 107, JAPAN	N			
ADDITIONAL NAME(S)			⊠NO			
 NATURE OF CONVE (Submit herewith only 			conice of com	na Assian	ment cianed by differ	ant inventors is one
(Submit nerewith only document)	one document for i	recordation—multiple	copies of san	ie Assign	ment signed by differ	ent inventors is one
SASSIGNMENT OF	= ⊠whole	PART INTER	REST	FXFC	DATE: September 2,	2003
⊠AGGIGINAL SI		ILE/PHOTOCOPY	(LOT		DATE: Coptombor 2,	2000
CHANGE OF NAM		D TRANSLATION				
SECURITY	—					
EXECUTION DATE(S) C	N THE DECLARAT		WITH: (NOTE	: IF DATE	S ON DECLARATIO	N AND
EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)						
4.5 APPL. NO.(S) OR PA]YES ⊠NO	
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S)		1st INVENTOR	SHEET(S) atta		YES ⊠NO	1st INVENTOR
4.5 APPL. NO.(S) OR PA	AT NO.(S). OTHER	1st INVENTOR If not in Item 1				1st INVENTOR if not in Item 1
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no	AT NO.(S). OTHER M# 305780	1st INVENTOR If not in Item 1 FINK	B. PATENT	NO(S)		AND THE RESERVE OF THE PROPERTY OF THE PROPERT
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F	AT NO.(S). OTHER M# 305780 Party to Whom Corre	1st INVENTOR If not in Item 1 FINK espondence	B. PATENT 6. NUMBE	NO(S) R INVOL	W#	if not in Item 1
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Document	AT NO.(S). OTHER M# 305780 Party to Whom Corre nt Should be Mailed	1st INVENTOR If not in Item 1 FINK espondence	6. NUMBE APPLNS	NO(S) R INVOL 1 + PA	VED: rs o = Total =	AND THE RESERVE OF THE PROPERTY OF THE PROPERT
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF	AT NO.(S). OTHER M# 305780 Party to Whom Corre nt Should be Mailed	1st INVENTOR If not in Item 1 FINK espondence	6. NUMBE APPLNS 7. AMOUNT	NO(S) R INVOL S 1 + PAT OF FEE	M# VED: TS <u>0</u> = TOTAL = DUE: (Code 581)	if not in Item 1
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gr	AT NO.(S). OTHER M# 305780 Party to Whom Corrent Should be Mailed roup	1st INVENTOR If not in Item 1 FINK espondence	6. NUMBE APPLNS 7. AMOUNT	NO(S) R INVOL S 1 + PAT OF FEE	VED: rs o = Total =	if not in Item 1
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF	AT NO.(S). OTHER M# 305780 Party to Whom Corrent Should be Mailed roup	1st INVENTOR If not in Item 1 FINK espondence	6. NUMBE APPLNS 7. AMOUNT	NO(S) R INVOL S 1 + PAT OF FEE	M# VED: TS <u>0</u> = TOTAL = DUE: (Code 581)	if not in Item 1
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gr	AT NO.(S). OTHER M# 305780 Party to Whom Corrent Should be Mailed roup	1st INVENTOR If not in Item 1 FINK espondence	6. NUMBE APPLNS 7. AMOUNT	NO(S) R INVOL S 1 + PAT OF FEE	M# VED: TS <u>0</u> = TOTAL = DUE: (Code 581)	if not in Item 1
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gr	AT NO.(S). OTHER M# 305780 Party to Whom Corrent Should be Mailed roup	1st INVENTOR If not in Item 1 FINK espondence	6. NUMBE APPLNS 7. AMOUNT ABOVE T	R INVOL S 1 + PAT OF FEE OTAL x	M# VED: TS <u>0</u> = TOTAL = DUE: (Code 581)	if not in item.1
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gr P.O. Box 10500 McLean 5.5ATTY DKT:	AT NO.(S). OTHER M# 305780 Party to Whom Correct At Should be Mailed Troup 1, VA 22102	1st INVENTOR If not in Item 1 FINK espondence :	6. NUMBE APPLNS 7. AMOUNT ABOVE T	R INVOL S 1 + PAT OF FEE OTAL x S CHARGE 03-3975	W# VED: IS 0 = TOTAL = DUE: (Code 581) \$40 = \$40	if not in item.1 1 COUNT
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gi P.O. Box 10500 McLean 5.5ATTY DKT: P 305780	AT NO.(S). OTHER M# 305780 Party to Whom Corrent Should be Mailed roup , VA 22102	Ist INVENTOR If not in Item 1 FINK espondence :	6. NUMBE APPLNS 7. AMOUNT ABOVE T	R INVOL S 1 + PAT OF FEE OTAL x S CHARGE 03-3975 DER NO	W# VED: IS 0 = TOTAL = DUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT ACC 71469	1 COUNT 305780
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gr P.O. Box 10500 McLean 5.5 ATTY DKT: P 305780 MATTER NO.	AT NO.(S). OTHER M# 305780 Party to Whom Corre Int Should be Mailed Proup Int VA 22102	Ist INVENTOR If not in Item 1 FINK espondence :	6. NUMBE APPLNS 7. AMOUNT ABOVE TO NUMBER: UNDER ORI dup. sheet not	NO(S) IR INVOLES 1 + PATE OF FEE OTAL x : CHARGE 03-3975 DER NO I required	VED: [S 0 = TOTAL = DUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT ACC 71469 CLIENT NO.	if not in item 1 1 COUNT 305780 MATTER NO.
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gi P.O. Box 10500 McLean 5.5ATTY DKT: P 305780	AT NO.(S). OTHER M# 305780 Party to Whom Corrent Should be Mailed roup 1, VA 22102 F Cl Dowledge and belief,	Ist INVENTOR If not in Item 1 FINK espondence :	6. NUMBE APPLNS 7. AMOUNT ABOVE TO NUMBER: UNDER ORI dup. sheet not	NO(S) IR INVOLES 1 + PATE OF FEE OTAL x : CHARGE 03-3975 DER NO I required	VED: [S 0 = TOTAL = DUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT ACC 71469 CLIENT NO.	if not in item 1 1 COUNT 305780 MATTER NO.
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gr P.O. Box 10500 McLean 5.5 ATTY DKT: P 305780 MATTER NO. 9. To the best of my kno	AT NO.(S). OTHER M# 305780 Party to Whom Corrent Should be Mailed roup 1, VA 22102 F Cl Dowledge and belief,	Ist INVENTOR If not in Item 1 FINK espondence :	6. NUMBE APPLNS 7. AMOUNT ABOVE TO NUMBER: UNDER ORI dup. sheet not tion is true and	R INVOL S 1 + PAT OF FEE OTAL x S CHARGE 03-3975 DER NO I required d correct	VED: TS 0 = TOTAL = DUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT ACC 71469 CLIENT NO. and any attached cop	if not in item 1 1 COUNT 305780 MATTER NO.
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gr P.O. Box 10500 McLean 5.5 ATTY DKT: P 305780 MATTER NO. 9. To the best of my kno	AT NO.(S). OTHER M# 305780 Party to Whom Corrent Should be Mailed roup 1, VA 22102 F Cl Dowledge and belief,	Ist INVENTOR If not in Item 1 FINK espondence :	6. NUMBE APPLNS 7. AMOUNT ABOVE TO NUMBER: UNDER ORI dup. sheet not tion is true and 10. Total number to the control of the co	R INVOLS 1 + PATE OF FEE OTAL x STATE OF THE OTAL X STATE OTAL	VED: TS 0 = TOTAL = DUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT ACC 71469 CLIENT NO. and any attached cop ages including this	if not in item 1 1 COUNT 305780 MATTER NO. y is a true copy of
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gr P.O. Box 10500 McLean 5.5 ATTY DKT: P 305780 MATTER NO. 9. To the best of my kno	AT NO.(S). OTHER M# 305780 Party to Whom Corrent Should be Mailed roup 1, VA 22102 F Cl Dowledge and belief,	Ist INVENTOR If not in Item 1 FINK espondence :	6. NUMBE APPLNS 7. AMOUNT ABOVE TO NUMBER: UNDER ORI dup. sheet not tion is true and cover sheet,	NO(S) R INVOL S 1 + PAT OF FEE OTAL x S CHARGE 03-3975 DER NO I required d correct	VED: [S 0 = TOTAL = DUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT ACC 71469 CLIENT NO. and any attached cop ages including this ents and document	if not in item 1 1 COUNT 305780 MATTER NO.
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gr P.O. Box 10500 McLean 5.5 ATTY DKT: P 305780 MATTER NO. 9. To the best of my know the original document	AT NO.(S). OTHER M# 305780 Party to Whom Correct of Should be Mailed of roup I, VA 22102 Figure 1 Culture 2 Culture	Ist INVENTOR If not in Item 1 FINK espondence :	6. NUMBE APPLNS 7. AMOUNT ABOVE TO NUMBER: UNDER ORI dup. sheet not tion is true and 10. Total number to the control of the co	NO(S) R INVOL S 1 + PAT OF FEE OTAL x S CHARGE 03-3975 DER NO I required d correct	VED: [S 0 = TOTAL = DUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT ACC 71469 CLIENT NO. and any attached cop ages including this ents and document	if not in item 1 1 COUNT 305780 MATTER NO. y is a true copy of
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gi P.O. Box 10500 McLean 5.5 ATTY DKT: P 305780 MATTER NO. 9. To the best of my know the original document	AT NO.(S). OTHER M# 305780 Party to Whom Correct of Should be Mailed of roup I, VA 22102 Figure and belief, t. Signature	Ist INVENTOR If not in Item 1 FINK espondence :	6. NUMBE APPLNS 7. AMOUNT ABOVE TO NUMBER: UNDER ORI dup. sheet not tion is true and cover sheet,	NO(S) R INVOL S 1 + PAT OF FEE OTAL x S CHARGE 03-3975 DER NO I required d correct	VED: [S 0 = TOTAL = DUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT ACC 71469 CLIENT NO. and any attached cop ages including this ents and document	if not in item 1 1 COUNT 305780 MATTER NO. y is a true copy of
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gi P.O. Box 10500 McLean 5.5 ATTY DKT: P 305780 MATTER NO. 9. To the best of my know the original document Attorney: Dale S. Laz	AT NO.(S). OTHER M# 305780 Party to Whom Correct of Should be Mailed of roup I, VA 22102 Figure and belief, t. Signature	Ist INVENTOR If not in Item 1 FINK espondence :	6. NUMBE APPLNS 7. AMOUNT ABOVE TO NUMBER: UNDER ORI dup. sheet not tion is true and cover sheet, (do not file december 10. Total number 10. T	R INVOLS 1 + PATE OF FEE OTAL x STATE OF THE OTAL X STATE OTAL X ST	VED: TS 0 = TOTAL = DUE: (Code 581) \$40 = \$40 TO OUR DEPOSIT ACC 71469 CLIENT NO. and any attached cop ages including this ents and document or sheet)	if not in item 1 1 COUNT 305780 MATTER NO. y is a true copy of
4.5 APPL. NO.(S) OR PA A. PAT. APP. NO.(S) series code/serial no 5. Name & Address of F Concerning Documer Pillsbury Winthrop LLF Intellectual Property Gi P.O. Box 10500 McLean 5.5 ATTY DKT: P 305780 MATTER NO. 9. To the best of my know the original document	AT NO.(S). OTHER M# 305780 Party to Whom Correct of Should be Mailed of roup I, VA 22102 Figure and belief, t. Signature	PC0144A 2 LIENT REF. The foregoing information	6. NUMBE APPLNS 7. AMOUNT ABOVE TO NUMBER: UNDER ORI dup. sheet not tion is true and cover sheet, (do not file decover)	NO(S) R INVOL S 1 + PAT OF FEE OTAL x S CHARGE 03-3975 DER NO I required d correct	VED: IS 0 = TOTAL = DUE: (Code 581) 40 = \$40 TO OUR DEPOSIT ACC 71469 CLIENT NO. and any attached cop ages including this ents and document r sheet)	if not in item 1 1 COUNT 305780 MATTER NO. y is a true copy of

FILE WITH PTO RETURN RECEIPT (PAT-103A)

09/29/2003 DBYRNE __00000143 033975 10664903 01 FC:8021 40.00 BA

REEL: 014530 FRAME: 0254

Please return signed/recorded to: Pillsbury Winthrop LLP Intellectual Property Group P.O. Box 10500 McLean, VA 22102

Atty. Dkt.	PMS 305780	PC0144A 2
	M#	Client Ref

ASSIGNMENT of U.S. Origin Patent Application

WHEREAS, the undersigned, to wit:

1) Steven T. FINK		2)	
3)		4)	
5)		6)	
7)		8)	
(hereinafter collective	ly ASSIGNOR), has/have made a	an invention known as Dkt.	305780
AND	RATED PROCESS TUBE AND INTERPRETATION INTO A PROPERTY OF LETTERS PATCH TO THE UNITED T		, ASSEMBLY THEREOF
	n date herewith and is about to be		Patent and Trademark Office:
was filed on	, Appln. No.	10 /	_ ;
AND WHERE	AS Tokyo Electron Limited		
(hereinafter ASSIGNI	EE), duly organized and existing ι	under the laws of the Countr	ry of Japan
and having its princip	al office and place of business at	3-6, Akasaka 5-chome, M	linato-ku, Tokyo 107, JAPAN
desires to acquire an	interest therein;		

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR, does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to the said invention in the United States and all foreign countries, as described in the aforesaid application, and to the said application and to all continuations, divisions, reissues and substitutes of said application, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and ASSIGNOR hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives.

PAT-114B 1/01

AND ASSIGNOR hereby agrees to execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

ASSIGNOR furthermore agrees upon request of said ASSIGNEE, and without further remuneration, to execute any and all papers desired by said ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE.

<u>NOTE</u>: The undersigned hereby authorizes Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

<u>Sigi</u> 1)	nature	Date Signed 9-2-3	Witness // ////////////////////////////////
2)	Name: Steven T. FINK		
3)	Name:	_	
,	Name:		
4)	Name:		
5)	Name:		
6)			
7)	Name:		
• ,	Name:		
8)	Name:		

PAT-114B 1/01

11

Executed on the date(s) below indicated.