1\*

FORM PTO-1595 (Modified)

(Rev. 6-93)
OMB No. 0651-0011 (exp.4/94)
Copyright 1994-97 LegalStar
P08/REV02

ELCYCORRORTIC

**RECOF** 12/22/49 P





\* No.: BU9-99-065

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

101241735

Additional numbers attached? Yes No CALLAZIÓ  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Marshall M. Curtis Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  2. Authorized to deposit account  8. Deposit account number:  11800 Sunrise Valley Drive, Suite 900  City: Reston  State: VA ZIP; 20191  DO NOT USE THIS SPACE  9. Statement and signature.  7. 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.  Eugene I. Shkurko, Reg. 36,678	Tab settings → → ▼ ▼	01241735 <b>▼</b> ▼
Toshiharu Furukwa David V. Horak Howard L. Kalter    Name: International Business Machines Corporation   Internal Address:   Substitute   Street Address:   Street Addr	To the Honorable Commissioner of Patents and Trademarks	: Please record the attached original documents or copy thereof.
Additional names(s) of conveying party(ies)   Yes  No   Name: Internal Address:   Name: Internal	Toshiharu Furukawa	2. Name and address of receiving party(ies):
Additional names(s) of conveying party(ies)		Name: International Business Machines Corporation
3. Nature of conveyance:    Security Agreement		Internal Address:
Street Address: New Orchard Road  Street Address: New Orchard Road  State: NY ZIP: 10504  Additional name(s) & address(es) attached?	Additional names(s) of conveying party(ies)	98.275
Assignment	3. Nature of conveyance:	
Execution Date: 12/16, 12/15, 12/15/99  Additional name(s) & address(es) attached? Yes No  Application number(s) or registration numbers(s):  It his document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s)  B. Patent No.(s)  Additional numbers attached? Yes No OA YUGA 275  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Marshall M. Curtis  Internal Address:  Internal Address:  Internal Address:  Whitham, Curtis & Whitham  Ita00 Sunrise Valley Drive, Suite 900  City: Reston State: VA ZIP: 20191  Do Not Use This SPACE  City: Armonk  Additional name(s) & address(es) attached? Yes No  12/16, 12/15, 12/15, 12/15, 12/15/99  12/16, 12/15, 12/15, 12/15, 12/15/99  12/16, 12/15, 12/15, 12/15/99  12/16, 12/15, 12/15, 12/15/99  12/16, 12/15, 12/15, 12/15/99  6. Total number of applications and patents involved: 1  Enclosed - Any excess or insufficiency should be credited or debited to deposit account  Authorized to be charged to deposit account  8. Deposit account number:  11800 Sunrise Valley Drive, Suite 900  City: Reston State: VA ZIP: 20191  Do Not Use This SPACE  O 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.  Eugene I. Shkurko, Reg. 36.678		Street Address: New Orchard Road
Additional name(s) & address(es) attached?	☐ Security Agreement ☐ Change of Name	
4. Application number(s) or registration numbers(s):  If this document is being filed together with a new application, the execution date of the application is:  12/15, 12/15, 12/15, 12/15/99  A. Patent Application No.(s)  B. Patent No.(s)  Additional numbers attached?  B. Patent No.(s)  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Marshall M. Curtis  Internal Address:  Intern	☐ Other	City: Armonk State: NY ZIP: 10504
Additional numbers attached? Yes No CALLAZIÓ  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Marshall M. Curtis Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  12/15/99  6. Total number of applications and patents involved: I Internal Address:  2. Authorized to deposit account  8. Deposit account number:  11800 Sunrise Valley Drive, Suite 900  City: Reston  State: VA ZIP; 20191  DO NOT USE THIS SPACE  9. Statement and signature.  7. 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.  Eugene I. Shkurko, Reg. 36,678	Execution Date: 12/16, 12/15, 12/15/99	Additional name(s) & address(es) attached?   Yes   No
A. Patent Application No.(s)  Additional numbers attached? Yes No ONUSE THIS SPACE  Additional numbers attached? Yes No ONUSE THIS SPACE  Additional numbers attached? Yes No ONUSE THIS SPACE  B. Patent No.(s)  Additional numbers attached? Yes No ONUSE THIS SPACE  6. Total number of applications and patents involved: I  7. Total fee (37 CFR 3.41):	4. Application number(s) or registration numbers(s):	
Additional numbers attached? Yes No Oq Yul 275  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Marshall M. Curtis  Internal Address:  Inclosed - Any excess or insufficiency should be credited or debited to deposit account  Internal Address:  Intern	If this document is being filed together with a new application	, the execution date of the application is: $^{12/15/99}$
6. Total number of applications and patents involved:    Name: Marshall M. Curtis	A. Patent Application No.(s)	B. Patent No.(s)
Name: Marshall M. Curtis  Internal Address:  Inter	Additional numbers attac	thed? □ Yes × No 09/414275
Internal Address:    Internal Address	5. Name and address of party to whom correspondence	6. Total number of applications and natenta invaluada
Internal Address:    COT/2000   JSHABATZ   00000)41   030456   09469275	Name: Marshall M. Curtis	7. Total fee (37 CFR 3.41):\$ 40.00
Authorized to be charged to deposit account  Street Address: Whitham, Curtis & Whitham  11800 Sunrise Valley Drive, Suite 900  City: Reston State: VA ZIP: 20191  DO NOT USE THIS SPACE  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.  Eugene I. Shkurko, Reg. 36,678		☐ Enclosed - Any excess or insufficiency should be
8. Deposit account number:  11800 Sunrise Valley Drive, Suite 900  City: Reston State: VA ZIP: 20191  DO NOT USE THIS SPACE  3. 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.  Eugene I. Shkurko, Reg. 36,678	FC+581 40.00 CF	_
11800 Sunrise Valley Drive, Suite 900  City: Reston State: VA ZIP: 20191  DO NOT USE THIS SPACE  3. 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.  Eugene I. Shkurko, Reg. 36,678	Street Address: Whitham, Curtis & Whitham	8 Denosit account number:
City: Reston  State: VA ZIP: 20191  DO NOT USE THIS SPACE  Do Not use this space  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.  Eugene I. Shkurko, Reg. 36,678	11800 Sunrise Valley Drive, Suite 900	·
DO NOT USE THIS SPACE  2. 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.  Eugene I. Shkurko, Reg. 36,678	City: Reston State: VA ZIP: 20191	07-0430
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.  Eugene I. Shkurko, Reg. 36,678		
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.  Eugene I. Shkurko, Reg. 36,678	2. Statement and signature	
Eugene I. Shkurko, Reg. 36,678 2 1 1 2/22/99	To the best of my knowledge and belief, the foregoing information	ation is true and correct and any attached copy is a true copy
		I KERL 13/20/00
Total number of pages including cover sheet, attachments, and document:	Name of Person Signing (802) 769–8832  Total number of pages including gover sh	, .~/ <b>=</b>

## ASSIGNMENT

## Whereas, we

- (1) Toshiharu Furukawa City of Essex Junction County of Chittenden and State of Vermont
- (2)David V. Horak City of Essex Junction County of Chittenden and State of Vermont
- (3)Howard L. Kalter City of Colchester County of Chittenden and State of Vermont

have invented certain improvements in

MULTI-LEVEL DRAM TRENCH STORE UTILIZING TWO CAPACITORS AND TWO PLATES

and have executed, respectively, a United States patent application therefor on

(1) Rec. 16, 1999

199, and (2) Dec. 15, 1999 199.

(3) Dec 15, 1999

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we the above named hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(1) Signed at ESSEX Junction, VT.

on Dec. 16 1999 1 Ashe lees

(2) Signed at Essex JUNGTOU, HE

on Dec 15 1999

(3) Signed at Essex Junction

on Dec 15 1999

**PATENT** <sup>1</sup> REEL: 010472 FRAME: 0323

**RECORDED: 12/22/1999**