40.00 CH         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 copy of the original document.         Steven Capella, Reg# 33,086       Signature         Name of Person Signing       9/2.2/94         Date       Date         Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments         VERESS MAIL NO.: EE468937025US       Commissioner of Patents and Trademarks, Box Assignments         READY CERTIFY THAT THIS CORRESPONDENCE IS BEING POSITED WITH THE US. POSTAL SERVICE AS EXPRESS MIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER OF ATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231         PUCANT AND/OR ATTORNEY REQUESTS THE DATE OF EPOSIT. September . 24, 1999	documents or copy ther HINES CORPORATION P P P P P P P P P
Autoracy Docket No: FI9-         To the Honorable Commission.       Internet Notice Contribution.         I. Name and address of receiving party(ics):       INTERNATIONAL BUSINESS MACHINES CORPORATE         Additional numbers of conveying party(ics):       INTERNATIONAL BUSINESS MACHINES CORPORATE         Yea X. No       INTERNATIONAL BUSINESS MACHINES CORPORATE         Name and address of receiving party(ics):       INTERNATIONAL BUSINESS MACHINES CORPORATE         Yea X. No       Address: New Orchard Road       E         . Name and address of party (ics) statches?       Yea X. No       Address: New Orchard Road       E         . Other	documents or copy ther HINES CORPORATION P P P P P P P P P
10 Nume of conveying party(ise):       INPU       2. Name and address of receiving party(ise):         1. Nume of conveying party(ise):       INPU       2. Name and address of receiving party(ise):         1. Address:       Near of conveying party(ise):       INPU         2. Name and address of receiving party(ise):       INPU       Address:       Near of conveying party(ise):         3. Nature of conveying party(ise):       Address:       New Orchard Road       Exclusion         2. Other       Clay:       Address:       New Orchard Road       Exclusion         3. Nature of conveying party Agreement       Charge of Name       Clay:       Address:       New Orchard Road       Exclusion         3. Application number(s) or patent number(s):       09/4051339       If this document is bing filed together with a new application, the execution date of the application is:       9/22/99, 9/22/99         4. Application number(s) or patent number(s):       09/4051339       If this document is build be mailed:       If this document is build be mailed:         Name:       Mark W. Wurm       If this document is abuild be mailed:       If this document is abuild be mailed:       If this document is be mailed:       If this document is of party to whom correspondence       If this mark W. Wurm       If this document is of party to whom correspondence       If this mark with weight is a document is of paparty to whom correspondence       If this mar	): HINES CORPORATION
Louis L. C. 185U and Cal J. RADENS       9-34/-94         Additional name(s) of conveying party(is) statched?       Address: New Orchand Road        Yes X. No       Address: New Orchand Road         3. Nutrie of conveyance:       Address: New Orchand Road        Yes X. No       City: Armonk        Other       Clauge of Name        Other address of party in whom correspondence       Of Mathonal numbers of address of party in whom correspondence        Name:       Mark W. Wurm       Total fac (37 CFR 1.21(n))	HINES CORPORATION
Address:       Non-Conveying pury(de) attached?	P:
Address: New Orchard Road Address: New Orcha	Yes <u>X</u> No <u>9/22/99</u> es <u>X</u> No
Assignment Merger     Security Agreement Change of Name     Other	Yes <u>X</u> No <u>9/22/99</u> es <u>X</u> No
Security Agreement _ Change of Name Other	Yes <u>X</u> No <u>9/22/99</u> es <u>X</u> No
City: Armonk State: NY ZIF 10504  Execution Date: 9/22/99, 9/22/99 Add'1 name(s) & address(es) attached? Yes X No  Application number(s) or patent number(s): 99/40513399 If this document is being filed together with a new application, the execution date of the application is: 9/22/99, 9/22/99 A. Patent Application No.(s) Not yet assigned Additional numbers attached? Yes X No  Not yet assigned Additional number of applications and patents involved: Not yet assigned Additional number of applications and patents involved: Not yet assigned Additional number of applications and patents involved: Not yet assigned Additional number of applications and patents involved: Not yet assigned Additional number of applications and patents involved: Not yet assigned Additional number of applications attached? Yes X No  Additional number of applications attached?  Additional number of applications attached?  Additional document.  Additional document.  Additional document.  Additional	Yes <u>X</u> No <u>9/22/99</u> es <u>X</u> No
Execution Date:       9/22/99, 9/22/99       Add't name(s) & address(es) attached? _ Yes _ X_ No         4. Application number(s) or patent number(s):       09/4051339/         If this document is being filed together with a new application, the execution date of the application is: _ 9/22/99, 9/22/99         A. Patent Application No.(s)       B. Patent No.(s)         Not yet assigned       Additional numbers attached? _ Yes _ X_ No         5. Name and address of party to whom correspondence concerting document should be mailed:       6. Total number of applications and patents involved:	Yes <u>X</u> No <u>9/22/99</u> es <u>X</u> No
4. Application number(s) or patent number(s):   9 9   1 this document is being filed together with a new application, the execution date of the application is: 9/22/99, 9/22/99   A. Patent Application No.(s) B. Patent No.(s)   Not yet assigned Additional numbers attached? _ Yes X. No   3. Name and address of party to whom correspondence 6. Total number of applications and patents involved:	<b>,</b> 9/22/99 es <u>X</u> No
If this document is being filed together with a new application, the execution date of the application is: 9/22/99, 9/22/99 A. Patent Application No.(s) Not yet assigned A diftional numbers attached? _Yes X_ No Additional numbers attached? _Yes X_ No Additional numbers attached? _Yes X_ No Additional numbers attached? _Yes X_ No Aname and address of party to whom correspondence concerning document should be mailed: Name: _Mark W, Wurm	es <u>X</u> No
If this document is being filed together with a new application, the execution date of the application is: 9/22/99, 9/22/99 A. Patent Application No.(s) Not yet assigned A diftional numbers attached? _Yes X_ No Additional numbers attached? _Yes X_ No Additional numbers attached? _Yes X_ No Additional numbers attached? _Yes X_ No Aname and address of party to whom correspondence concerning document should be mailed: Name: _Mark W, Wurm	es <u>X</u> No
Not yet assigned       Additional numbers attached? _Yes X_ No         S. Name and address of party to whom correspondence concerting document should be mailed:       6. Total number of applications and patents involved:         Name:       Mark W, Wurm       1.         LANE, AITKEN & McCANN, LLP       7. Total fee (37 CFR 1.21(h))	
5. Name and address of party to whom correspondence concerning document should be mailed:       6. Total number of applications and patents involved:         Name:       Mark W, Wurm       1         LANE, AITKEN & MCCANN, LLP       7. Total fee (37 CFR 1.21(h))	
concerning document should be mailed:	1
Image: Construct of the construction of the constructio	
LANE, AITKEN & McCANN, LLP	40.00
2600 Virginia Avenue, N.W.       X       Authorized to be charged to deposit account         8. Deposit account number:       09-0458 (FI-458)         City: Washington State: DC ZIP: 20037       09-0458 (FI-458)         V1999 DHEUYEN 00000149 090458 09405329       DO NOT USE THIS SPACE         v1999 DHEUYEN 00000149 090458 09405329       DO NOT USE THIS SPACE         v1999 DHEUYEN 00000149 090458 09405329       DO NOT USE THIS SPACE         v1999 DHEUYEN 00000149 090458 09405329       DO NOT USE THIS SPACE         v2000 CH       9         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 copy of the original document.         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 copy of the original document.         9. Statement and signature. To the best of my knowledge of pages including cover sheet, attachments and document:       3         9. Statement Sto be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments       3         Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments       3         PRESS MAIL NO: EE468937025US       Separes       Author Kenter of Patents and Trademarks, Box Assignments         POSITED WITH THE U.S. POSTAL SERVICE AS EXPRESS       Auth N AN ENCLOPE ADORESST	_40.00
Op-0458       (FI-458)         Ciry:       Washington       State: DC       ZIP: 20037         /1999       DO NOT USE THIS SPACE         2581       40.00 CH         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 copy of the original document.         Steven Capella, Reg#       33,086       Jumumber of pages including cover sheet, attachments and document: 3         Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments       July         PRESS MAIL NO: EE468937025US       Commissioner of Patents and Trademarks, Box Assignments         PREMOVED CATHER HING CORRESPONDENCE IS BEING POSITED WITH THE US, POSTAL SERVICE AS EXPRESS       State of Patents and Trademarks, Box Assignments         PREMOVED CADRESPONDENCE IS BEING POSITED WITH THE US, POSTAL SERVICE AS EXPRESS       State of Patents and Trademarks, Box Assignments         PREMOVED ADDRESSED TO: COMMISSIONER OF ATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231       PREMOVED ADDRESSED THE DATE OF POSITED WITH PAUS.       Patenter of Patents         TEOF DEPOSIT:       September 24, 1999       Line       Line	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
City: Washington_State: DC_ZIP: 20037	
1999 DNEUYEN 00000149 090458 09405329       DO NOT USE THIS SPACE         1.581       40.00 CH         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 copy of the original document.         Steven Capella, Reg# 33,086       Mail Mocuments of pages including cover sheet, attachments and document: 3         Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments         PRESS MAIL NO: EE468937025US         Commissioner of Patents and Trademarks, Box Assignments         PRESS MAIL NO: Set A SEXPRESS         ALL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER OF ATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231         PUCANT ANDOR ATTORNEY REQUESTS THE DATE OF POSITE MEDATE.         TE OF DEPOSIT: September 24, 1999	
40.00 CH         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 copy of the original document.         Steven Capella, Reg# 33,086       Signature         Steven Capella, Reg# 33,086       Junture         Total number of pages including cover sheet, attachments and document:       3         Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments       3         Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments       3         Mail Mox: EE468937025US       Mail Service As EXPRESS         Mul. IN A: EVELOPE ADDRESSED TO: COMMISSIONER OF ATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231       PUCANT AND/OR ATTORNEY REQUESTS THE DATE OF EPOSIT AS THE FILE DATE.         TE OF DEPOSIT:       September , 24, 1999       Junture	
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 copy of the original document.         Steven Capella, Reg# 33,086       Main Graph and Correct and any attached copy is a signature graph and correct and any attached copy is a signature graph and correct and any attached copy is a signature graph and correct and any attached copy is a signature graph and correct and any attached copy is a signature graph and correct and any attached copy is a signature graph and correct and any attached copy is a signature graph and correct and any attached copy is a signature graph and correct and any attached copy is a signature graph and correct and any attached copy is a signature graph and correct and any attached copy is a graph and correct and any attached copy is a signature graph and correct and any attached copy is a graph and correct and any attached copy is a copy of the original document.         Steven Capella, Reg# 33,086       Main and correct and any attached copy is a graph and correct and any attached copy is a copy of the original document.         9122/91       Date         Main documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments         RERESS MAIL NO.: EE468937025US       Commissioner of Patents and Trademarks, Box Assignments         REPOSITED WITH THE US. POSTAL SERVICE AS EXPRESS       Main And Evolution of commissioner of Patents and Trademarks, Box Assignments         MLI NA EVPELOPE ADDRESSED TO: COMMISSIONER OF ATENTS AND TRADEmarks, WASHINGTON, D.C. 20231       Main Advector of Patents and Correct and the patent at the public of the patent at the public of the proster of the	
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a copy of the original document. Steven Capella, Reg# 33,086 Name of Person Signing Total number of pages including cover sheet, attachments and document: <u>3</u> Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING POSITED WITH THE U.S. POSTAL SERVICE AS EXPRESS NUL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER OF ATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231 PPLICANT AND/OR ATTORNEY REQUESTS THE DATE OF EPOSIT AS THE FILE DATE. TE OF DEPOSIT. September 24, 1999	
Name of Person Signing       Signature       Date         Total number of pages including cover sheet, attachments and document:       3	attached copy is a true
Commissioner of Patents and Trademarks, Box Assignments HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING EPOSITED WITH THE U.S. POSTAL SERVICE AS EXPRESS IAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER OF ATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231 RPUCANT AND/OR ATTORNEY REQUESTS THE DATE OF EPOSIT AS THE FILE DATE. ATE OF DEPOSIT: September 24, 1999	<u>9/22/99</u> Date
APPRESS MAIL NO.: <u>EE46893702505</u> HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING EPOSITED WITH THE U.S. POSTAL SERVICE AS EXPRESS WAL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER OF ATENTS AND TRADEMARKS, WASHINGTON, D.C. 20231 APUCANT AND/OR ATTORNEY REQUESTS THE DATE OF EPOSIT AS THE FILE DATE. ATE OF DEPOSIT: <u>September</u> 24, 1999	
ATE OF DEPOSIT: September 24, 1999	
YSIGNATURE & DATE: KOULING TO THE APP MOUT OF HEW	
Replinant 200 10 10 9 24/55 9/24/17 PATENT	

## ASSIGNMENT

Whereas, I,

(1) Louis L. C. HSU County of Dutchess

of Fishkill and State of New York

and

(2) Carl J. RADENS County of Dutchess

of LaGrangeville and State of New York

have invented certain improvement in

## METHOD AND STRUCTURE FOR REDUCING THE SIZE OF PITCH LIMITED CIRCUITS

and executed a United States patent application therefor on

(Date )	Inventor Signed D	Declaration) (1)	Sept.	22	, 1999 and
(2)	Sept	٩٢	, 1 <b>999</b> .		

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 therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, 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 I 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 I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Docket Number: FI9-99-043

Signed at <u>E. Fishkill NI on 9-22</u>, 1999. (1)

Signed at  $\underline{E} \cdot Fishkill NT on \underline{q-22}$ , 1999. (2)hur Jane

Carl J. RADENS

Page 2 of 2

**RECORDED: 09/24/1999**