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To the Honorable Commissioner of Pat

101318374

attached original documents or copy thereof.

## 1. Name of conveying party(ies):

William Hsioh-Lien Ma, David Vaclav Horak,  
Toshiharu Furukawa, Steven J. Holmes,  
Mark Charles Hakey

## 2. Name and address of receiving party(ies):

Name: International Business Machines Corporation

Address: New Orchard Road

Additional names(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

3/2/2000, 3/9/2000, 3/6/2000  
3/6/2000, 3/2/2000

Execution Date:

City: Armonk

State/Prov.: New York

Country: U.S.A.

ZIP: 10504

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 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: 3/2/2000

Patent Application No.

Filing date

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Richard L. Catania

Registration No. 32,608

Address: Scully, Scott, Murphy &amp; Presser

400 Garden City Plaza

City: Garden City

State/Prov.: New York

Country: U.S.A.

ZIP: 11530

## 6. Total number of applications and patents involved:

1

## 7. Total fee (37 CFR 3.41):.....\$ 40.00

☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

## 8. Deposit account number:

09-0456/IBM

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## 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.

Mark Chadurjian for  
William D. Sabo, Reg. 27,465

Name of Person Signing

Signature

4

Date

Total number of pages including cover sheet, attachments, and document:

( Docket No.: BU-99-216)

**ASSIGNMENT****Whereas, we**

Inventor and City	(1) William Hsioh-Lien Ma County of Dutchess	City of Fishkill and State of New York
and	(2) David Vaclav Horak County of Chittenden	City of Essex Junction and State of Vermont
and	(3) Toshiharu Furukawa County of Chittenden	City of Essex Junction and State of Vermont
and	(4) Steven J. Holmes County of Chittenden	City of Milton and State of Vermont
and	(5) Mark Charles Hakey County of Chittenden	City of Milton and State of Vermont

**have invented certain improvements in**

Title **AN IMPROVED ALIGNMENT METHODOLOGY FOR LITHOGRAPHY**

Dates That Inventors Signed the Declaration and have executed, respectively, a United States patent application therefor on

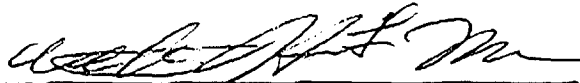
(1) 3/2/2000	2000, and (2)	2000, and
(3)	2000, and (4)	2000, and
(5) 3/2/2000	2000.	

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.

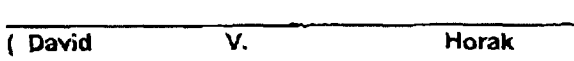
City (1) Signed at Fishkill, NY

Date on 3/2/2000

 signature  
( William H.L. Ma ) Inventor  
First Name Middle Initial Last Name

City (2) Signed at

Date on

 signature  
( David V. Horak ) Inventor  
First Name Middle Initial Last Name

# ASSIGNMENT

**Whereas, we**

Inventor and City	(1) William Hsioh-Lien Ma County of Dutchess	City of Fishkill and State of New York
and	(2) David Vaclav Horak County of Chittenden	City of Essex Junction and State of Vermont
and	(3) Toshiharu Furukawa County of Chittenden	City of Essex Junction and State of Vermont
and	(4) Steven J. Holmes County of Chittenden	City of Milton and State of Vermont
and	(5) Mark Charles Hakey County of Chittenden	City of Milton and State of Vermont

**have invented certain improvements in**

**AN IMPROVED ALIGNMENT METHODOLOGY FOR LITHOGRAPHY**

Title

Dates That  
Inventors  
Signed the  
Declaration

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

(1)	2000, and (2)	mar 9	2000, and
(3) March 6,	2000, and (4)	March 6,	2000, and
(5)	2000.		

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;

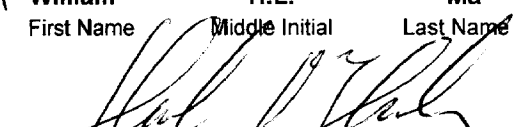
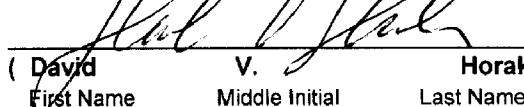
Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we the above named hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign 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.

City (1) Signed at

Date on

City (2) Signed at Essex June 12

Date on mar 9 2000

( William	H.L.	Ma	signature
First Name	Middle Initial	Last Name	) inventor
			
( David	V.	Horak	signature
First Name	Middle Initial	Last Name	) inventor
			

# ASSIGNMENT (Continued)

City (3) Signed at Essex Junction, VT  
Date on 3/06/2000 Toshiharu Furukawa signature  
( Toshiharu Furukawa ) inventor  
First Name Middle Initial Last Name

City (4) Signed at Essex Junction, VT  
Date on 3/6/2000 Steven J. Holmes signature  
( Steven J. Holmes ) inventor  
First Name Middle Initial Last Name

City (5) Signed at  
Date on  
Mark C. Hakey signature  
( Mark C. Hakey ) inventor  
First Name Middle Initial Last Name

( Docket No.: BU-99-218)

**ASSIGNMENT** (Continued)

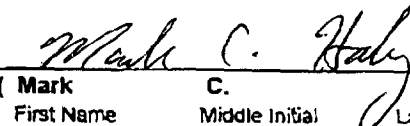
City (3) Signed at  
Date on

<hr/>			signature ) inventor
( Toshiharu		Furukawa	
First Name	Middle Initial	Last Name	

City (4) Signed at  
Date on

<hr/>			signature ) inventor
( Steven	J.	Holmes	
First Name	Middle Initial	Last Name	

City (5) Signed at Fishkill  
Date on 3/02/00

			signature ) inventor
( Mark	C.	Hakey	
First Name	Middle Initial	Last Name	