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To the Honorable Commissioner of Patents and Trademarks
documents or copy thereof.

Please record the attached original

1. Name of Conveying party(ies): John G. Hartley, Timothy R. Groves,

7.20.01

3. Nature of Conveyance: Assignment

2. Name & address of receiving party(ies)

Name: International Business Machines Corporation

Execution Date: 04/16/01; 04/17/01;

Street Address: New Orchard Road

City: Armonk State: New York ZIP: 10504

4. Application number(s) or patent number(s):

Title of Application: SPATIAL PHASE LOCKING WITH SHAPED ELECTRON BEAM LITHOGRAPHY

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s).
Docket No. FIS920000237US1
Serial No. 09/809,766
Filing Date: 03/15/2001

B. Patent No(s)

406

Additional numbers attached? Yes No

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

Name: Tiffany L. Townsend

Street Address:

International Business Machines Corp.
Intellectual Property Law Dept.
2070 Route 52
Dept. 18G / Bldg. 300-482
Hopewell Junction, New York 12533

6. Total number of applications and patents involved: 1

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

Enclosed
 Authorized to be charged to deposit account

8. Deposit A/C no.: 09-0458 (FI-408)

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9. Statement of 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.

Tiffany L. Townsend, Registration No. 43,199
Name of Person Signing
Telephone No. (845) 894-3668

Tiffany Townsend
Signature

7/11/01
Date

Total number of pages including cover sheet, attachments, and document: 3

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, D.C. 20231.

Date of Deposit: July 12, 2001

Name of Person Making Deposit: Karen Cing-Mars

Signature: Karen Cing-Mars 7/12/01

08/07/2001 ANNEM1 00000018 090458 09809766

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PATENT
REEL: 012034 FRAME: 0202

ASSIGNMENT

Whereas, We

Inventors	(1) John G. Hartley County of Dutchess	City of Fishkill and State of New York
	(2) Timothy R. Groves	City of Fulbourn Of United Kingdom

have invented certain improvements in

Title **SPATIAL PHASE LOCKING WITH SHAPED ELECTRON BEAM LITHOGRAPHY**

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

Dates That Inventor Signed	(1) 4/16/01	200 , and
	(2)	200 .

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, 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 we 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.

City	(1)	Signed at	East Fishkill, NY		
Date	on	_____	signature		
4/16/01		(John G. Hartley)) inventor		
		First Name	Middle Initial	Last Name	
City	(2)	Signed at			
Date	on	_____	signature		
		(Timothy R. Groves)) inventor		
		First Name	Middle Initial	Last Name	

ASSIGNMENT

Whereas, We

Inventors	(1)	John G. Hartley County of Dutchess	City of Fishkill and State of New York
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Dates That Inventor Signed	(1)		200 , and
	(2)	<i>17 APRIL</i>	200 <i>1</i>

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, 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 we 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.

City	(1)	Signed at	
Date	on		signature
			_____ (John G. Hartley) inventor First Name Middle Initial Last Name

City	(2)	Signed at	Fulbourn, United Kingdom
Date	on		signature
			_____ (Timothy R. Groves) inventor First Name Middle Initial Last Name