

08-28-1998

Jocket No.: BU998-020 (11195)

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U.S. DEPARTMENT OF COMMERCE  
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

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

Toshiharu Furukawa  
Mark C. Hakey  
Steven J. Holmes  
David V. Horak  
Thomas S. Kanarsky

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

## 3. Nature of conveyance:

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

Execution Date: 8/6/98; 8/6/98; 8/7/98; 8/7/98;  
8/18/98

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

Name: International Business Machines Corporation

Internal Address:

Street Address: NEW Orchard Road

City: Armonk State: NY 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: 8/6/98; 8/6/98;  
8/7/98; 8/7/98; 8/18/98

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Paul J. Esatto, Jr. Reg. No. 30,749

Internal Address: Scully, Scott, Murphy &amp; Presser

Street Address: 400 Garden City Plaza

City: Garden City State: NY 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

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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.

William D. Sabo Reg. No. 27,465

Tel.: (802) 769-9454

Name of Person Signing

Signature

08/18/98

Date

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

PATENT

REEL: 9398 FRAME: 0490

U.S. PTO  
09/13/98  
08/19/98

0913586  
090456  
00000248  
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FC:501

(IBM Docket No.:BU998-020)  
(SSM&P Docket No.: 11195)

## ASSIGNMENT

Whereas, we

|                      |  |  |
|----------------------|--|--|
| Inventor<br>and City | (1) Toshiharu Furukawa<br>County of Chittenden | City of Essex Junction<br>and State of Vermont     |
| and                  | (2) Mark C. Hakey<br>County of Chittenden      | City of Milton<br>and State of Vermont             |
| and                  | (3) Steven J. Holmes<br>County of Chittenden   | City of Milton<br>and State of Vermont             |
| and                  | (4) David V. Horak<br>County of Chittenden     | City of Essex Junction<br>and State of Vermont     |
| and                  | (5) Thomas S. Kanarsky<br>County of Dutchess   | City of Hopewell Junction<br>and State of New York |

Title have invented certain improvements in  
FORMATION OF OUT-DIFFUSED BITLINE BY LAST ANNEAL

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

Signed the Declaration (1) 8/6 199 , and (2) 8/6 199 , and  
(3) 8/7 199 , and (4) 8/7 199 .

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 *Essex Junction*

Date on *8/6/98*

*Toshiharu Furukawa* signature  
( Toshiharu Furukawa ) Inventor  
First Name Middle Initial Last Name

City (2) Signed at *Essex Junction*

Date on *8/6/98*

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

(IBM Docket No.:BU998-020)  
(SSM&P Docket No.: 11195)

# ASSIGNMENT (Continued)

TITLE: FORMATION OF OUT-DIFFUSED BITLINE BY LAST ANNEAL

City (3) Signed at *Essex Junction, VT*  
Date on *8/7/98*

*Steven J. Holmes* signature  
( Steven J. Holmes ) inventor  
First Name Middle Initial Last Name

City (4) Signed at *Essex Junction VT*  
Date on *8/7/98*

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

City (5) Signed at *East Fishkill, N.Y.*  
Date on *8/18/98*

*Thomas S. Kanarsky* signature  
( Thomas S. Kanarsky ) inventor  
First Name Middle Initial Last Name