

07-03-2002

FORM PTO-1619A
Expires 06/30/99
OMB 0651-0027



102143731

U.S. Department of Commerce
Patent and Trademark Office
PATENT

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

Resubm

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New *6-27-02*

Resubmission (Non-Recordation)
Document ID# 102045673

Corrector of PTO Error
Reel # Frame #

Corrective Document
Reel # Frame #

Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other

U.S. Government
(For Use ONLY by U.S. Government Agencies)

Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1) Brian Augustine Delaire Execution Date
Month Day Year
02212002

Name (line 2)

Second Party

Name (line 1) Daniel Graham Douglas Execution Date
Month Day Year
12132001

Name (line 2)

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) International Business Machines Corporation If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1) New Orchard Road

Address (line 2)

Address (line 3) Armonk New York 10504
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

FOR OFFICE USE ONLY

07/02/2002 6TON11 0000103 09972462
01 FC:581 40.00 OP

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

PATENT
REEL: 013037 FRAME: 0511

Correspondent Name and Address

Area Code and Telephone Number

617-439-2717

Name David J. Powsner

Address (line 1) Nutter, McClennen & Fish,

Address (line 2) One International Place

Address (line 3) Boston, MA 02110-2699

Address (line 4)

Pages Enter the total number of pages of the attached conveyance document including any attachments.

12

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09972462

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT PCT PCT
PCT PCT PCT

Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:
Deposit Account

Enclosed Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

141449

Authorization to charge additional fees:

Yes No

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. Charges to deposit account are authorized, as indicated herein.

David J. Powsner

6/25/02

Name of Person Signing

Signature

Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) [Douglas Paul Dunham]

Execution Date
Month Day Year

12122001

Name (line 2) []

Execution Date
Month Day Year

Name (line 1) [Vincent Jomartin Hoang]

12112001

Name (line 2) []

Execution Date
Month Day Year

Name (line 1) [Nancy Lott Hobbs]

12122001

Name (line 2) []

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1) []

Name (line 2) []

Address (line 1) []

Address (line 2) []

Address (line 3) [] [] []

City

State/Country

Zip Code

Name (line 1) []

Name (line 2) []

Address (line 1) []

Address (line 2) []

Address (line 3) [] [] []

City

State/Country

Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

[]	[]	[]
[]	[]	[]
[]	[]	[]
[]	[]	[]
[]	[]	[]

[]	[]	[]
[]	[]	[]
[]	[]	[]
[]	[]	[]
[]	[]	[]

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Louis Leo Lorber

Execution Date
Month Day Year
12122001

Name (line 2)

Name (line 1) Sandy Yuen Hing McDonald

Execution Date
Month Day Year
12212001

Name (line 2)

Name (line 1) Gregory John Tevis

Execution Date
Month Day Year
02072002

Name (line 2)

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

04-05-2002



OFFICE OF PUBLIC RECORDS
U.S. Department of Commerce
Patent and Trademark Office

PATENT
02 MAR 18 AM 10:36

3-18-02

102045673
RECORDATION FORM COVER SHEET
PATENTS ONLY

FINANCE SECTION

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New

Resubmission (Non-Recordation)
Document ID#

Correction of PTO Error
Reel # Frame #

Corrective Document
Reel # Frame #

Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other

U.S. Government
(For Use ONLY by U.S. Government Agencies)

Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Execution Date
Month Day Year

Name (line 1) Brian Augustine Delaire

02212002

Name (line 2)

Second Party

Execution Date
Month Day Year

Name (line 1) Daniel Graham Douglas

12132001

Name (line 2)

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) International Business Machines Corporation

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1) New Orchard Road

Address (line 2)

Address (line 3) Armonk New York 10504
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

04/04/2002 DBYRNE
01 FC:581

00030053 09972462

FOR OFFICE USE ONLY

40.00 DP

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

PATENT
REEL: 013037 FRAME: 0515

Correspondent Name and Address

Area Code and Telephone Number

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document including any attachments. #

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

<input type="text" value="09972,462"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Patent Cooperation Treaty (PCT)

Enter PCT application number **only if** a U.S. Application Number has not been assigned.

PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>
PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>

Number of Properties

Enter the total number of properties involved. #

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment: Enclosed Deposit Account

Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.) #

Authorization to charge additional fees: Yes No

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. Charges to deposit account are authorized, as indicated herein.

David J. Powsner

Name of Person Signing

Signature

Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) Douglas Paul Dunham

Execution Date
Month Day Year
12122001

Name (line 2)

Name (line 1) Vincent Jomartin Hoang

Execution Date
Month Day Year
12112001

Name (line 2)

Name (line 1) Nancy Lott Hobbs

Execution Date
Month Day Year
12122001

Name (line 2)

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Execution Date
Month Day Year

Name (line 1) Louis Leo Lorber

12122001

Name (line 2)

Execution Date
Month Day Year

Name (line 1) Sandy Yuen Hing McDonald

12212001

Name (line 2)

Execution Date
Month Day Year

Name (line 1) Gregory John Tevis

02072002

Name (line 2)

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

ASSIGNMENT

Whereas, we

- (1) Brian Augustine Delaire of 38448 Crosspointe Cmn., Fremont, County of Alameda and State of California,
- and (2) Daniel Graham Douglas of 1607 Puerto Vallarta Drive, San Jose, County of Santa Clara and State of California,
- and (3) Douglas Paul Dunham of 89 Cashew Blossom Drive, San Jose, County of Santa Clara and State of California,
- and (4) Vincent Jomartin Hoang of 1094 Saddlewood Drive, San Jose, County of Santa Clara and State of California,
- and (5) Nancy Lott Hobbs of 969 Leighton Way, Sunnyvale, County of Santa Clara and State of California,
- and (6) Louis Leo Lorber of 205 Alviso Street, Santa Clara, County of Santa Clara and State of California,
- and (7) Sardy Yuan Hing McDonald of 5607 Bellagio Drive, San Jose, County of Santa Clara and State of California,
- and (8) Gregory John Tevis of 2811 West Puccini Place, Tuscon, County of Pima and State of Arizona,

have inven ed certain improvements in

STORAGE AREA NETWORK METHODS AND APPARATUS WITH FILE SYSTEM EXTENSION

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

- (1) 2/21/02, 2001, (2) _____, 2001, (3) 12/12, 2001, (4) 12/11, 2001,
- (5) 12/12, 2001, (6) 12/12, 2001, (7) 12/12, 2001, (8) 12/12, 2001

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desired 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 assigned, 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 inventions 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.

Signed and sealed

(1) at <u>San Jose</u>	<u>Brian Delaire</u>	Signature
on <u>2/21/02</u> , 2001,	Brian Augustine Delaire	Inventor
(2) at _____	_____	Signature
on _____, 2001,	Daniel Graham Douglas	Inventor
(3) at <u>San Jose</u>	<u>Douglas Paul Dunham</u>	Signature
on <u>12/12</u> , 2001,	Douglas Paul Dunham	Inventor
(4) at <u>San Jose</u>	<u>Vincent Hoang</u>	Signature
on <u>12/11</u> , 2001,	Vincent Jomartin Hoang	Inventor
(5) at <u>San Jose</u>	<u>Nancy Lott Hobbs</u>	Signature

on 12/12, 2001,
 (6) at San Jose
 on 12/12, 2001,
 (7) at San Jose
 on 12/12, 2001,
 (8) at _____
 on _____, 2001,

Nancy Lott Hobbs

Nancy Lott Hobbs

Inventor

Signature

Louis Leo Lorber

Louis Leo Lorber

Inventor

Signature

Sandy Yuan Hing McDonald

Sandy Yuan Hing McDonald

Inventor

Signature

Gregory John Tevis

Inventor

ASSIGNMENT

Whereas, we

- (1) Brian Augustine Delaire of 38448 Crosspointe Cmn., Fremont, County of Alameda and State of California,
- and (2) Daniel Graham Douglas of ~~1607 Puerto Vallarta Drive, San Jose~~ 156 Jackson Street, Los Gatos, County of Santa Clara and State of California,
- and (3) Douglas Paul Dunham of 89 Cashew Blossom Drive, San Jose, County of Santa Clara and State of California,
- and (4) Vincent Jomartin Hoang of 1094 Saddlewood Drive, San Jose, County of Santa Clara and State of California,
- and (5) Nancy Lott Hobbs of 969 Leighton Way, Sunnyvale, County of Santa Clara and State of California,
- and (6) Louis Leo Lorber of 205 Alviso Street, Santa Clara, County of Santa Clara and State of California,
- and (7) Sandy Yuan Hing McDonald of 5607 Bellagio Drive, San Jose, County of Santa Clara and State of California,
- and (8) Gregory John Tevis of 2811 West Puccini Place, Tuscon, County of Pima and State of Arizona,

have invented certain improvements in

STORAGE AREA NETWORK METHODS AND APPARATUS WITH FILE SYSTEM EXTENSION

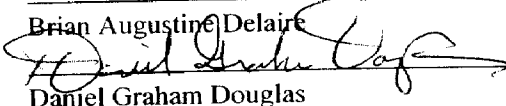
and executed, respectively, a United States patent application therefor on

- (1) _____, 2001, (2) 12/13, 2001, (3) _____, 2001, (4) _____, 2001,
- (5) _____, 2001, (6) _____, 2001, (7) _____, 2001, (8) _____, 2001

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desired 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 assigned, 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 inventions 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.

Signed and sealed

(1) at _____	_____	Signature
on _____, 2001,	Brian Augustine Delaire	Inventor
(2) at <u>Los Gatos, CA</u>		Signature
on <u>Dec. 13</u> , 2001,	Daniel Graham Douglas	Inventor
(3) at _____	_____	Signature
on _____, 2001,	Douglas Paul Dunham	Inventor
(4) at _____	_____	Signature
on _____, 2001,	Vincent Jomartin Hoang	Inventor
(5) at _____	_____	Signature

on _____, 2001,	Nancy Lott Hobbs	Inventor
(6) at _____	_____	Signature
on _____, 2001,	Louis Leo Lorber	Inventor
(7) at _____	_____	Signature
on _____, 2001,	Sandy Yuan Hing McDonald	Inventor
(8) at _____	_____	Signature
on _____, 2001,	Gregory John Tevis	Inventor

ASSIGNMENT

Whereas, we

- (1) Brian Augustine Delaire of 38448 Crosspointe Cmn., Fremont, County of Alameda and State of California,
- and (2) Daniel Graham Douglas of 1607 Puerto Vallarta Drive, San Jose, County of Santa Clara and State of California,
- and (3) Douglas Paul Dunham of 89 Cashew Blossom Drive, San Jose, County of Santa Clara and State of California,
- and (4) Vincent Jomartin Hoang of 1094 Saddlewood Drive, San Jose, County of Santa Clara and State of California,
- and (5) Nancy Lott Hobbs of 969 Leighton Way, Sunnyvale, County of Santa Clara and State of California,
- and (6) Louis Leo Lorber of 205 Alviso Street, Santa Clara, County of Santa Clara and State of California,
- and (7) Sandy Yuan Hing McDonald of 5607 Bellagio Drive, San Jose, County of Santa Clara and State of California,
- and (8) Gregory John Tevis of 2811 West Puccini Place, Tuscon, County of Pima and State of Arizona,

have invented certain improvements in

STORAGE AREA NETWORK METHODS AND APPARATUS WITH FILE SYSTEM EXTENSION

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

- (1) _____, 2001, (2) _____, 2001, (3) _____, 2001, (4) _____, 2001,
- (5) _____, 2001, (6) _____, 2001, (7) _____, 2001, (8) 2/7, 2002

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desired 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 assigned, 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 inventions 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.

Signed and sealed

(1) at _____	_____	Signature
on _____, 2001,	Brian Augustine Delaire	Inventor
(2) at _____	_____	Signature
on _____, 2001,	Daniel Graham Douglas	Inventor
(3) at _____	_____	Signature
on _____, 2001,	Douglas Paul Dunham	Inventor
(4) at _____	_____	Signature
on _____, 2001,	Vincent Jomartin Hoang	Inventor
(5) at _____	_____	Signature

on _____, 2001,
 (6) at _____
 on _____, 2001,
 (7) at _____
 on _____, 2001,
 (8) at Tucson
 on 2/7, 2002

Nancy Lott Hobbs

Louis Leo Lorber

Sandy Yuan Hing McDonald

Gregory/John Tevis



Inventor

Signature

Inventor

Signature

Inventor

Signature

Inventor