

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
David Darden Chambliss	04/17/2006
Bruce Light Hillsberg	02/28/2006
Divyesh Jadav	02/16/2006
Jaishankar Moothedath Menon	04/28/2006
Prashant Pandey	02/15/2006
Jian Xu	04/24/2006
Ramachandran Gopalakrishna Menon	04/21/2006
Tzongyu Paul Lee	02/09/2006

RECEIVING PARTY DATA

Name:	International Business Machines Corporation
Street Address:	New Orchard Road
City:	Armonk
State/Country:	NEW YORK
Postal Code:	10504

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	10663559

CORRESPONDENCE DATA

Fax Number: (310)556-7984
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 3105567983
 Email: patricia@ipmatters.com
 Correspondent Name: KONRAD RAYNE & VICTOR, LLP.
 Address Line 1: 315 S. Beverly Drive, Suite 210
 Address Line 4: Beverly Hills, CALIFORNIA 90212

CH \$40.00 10663559

ATTORNEY DOCKET NUMBER:	SJO920030006US1
-------------------------	-----------------

NAME OF SUBMITTER:	Patricia McLaughlin
--------------------	---------------------

Total Attachments: 12

source=SJO920030006US1_Assignment#page1.tif
source=SJO920030006US1_Assignment#page2.tif
source=SJO920030006US1_Assignment#page3.tif
source=SJO920030006US1_Assignment#page4.tif
source=SJO920030006US1_Assignment#page5.tif
source=SJO920030006US1_Assignment#page6.tif
source=SJO920030006US1_Assignment#page7.tif
source=SJO920030006US1_Assignment#page8.tif
source=SJO920030006US1_Assignment#page9.tif
source=SJO920030006US1_Assignment#page10.tif
source=SJO920030006US1_Assignment#page11.tif
source=SJO920030006US1_Assignment#page12.tif

ASSIGNMENT

Whereas, we

INVENTOR
AND CITY

(1) David Darden Chambliss
County of Santa Clara

of Morgan Hill
and State of California

(2) Bruce Light Hillsberg
County of San Mateo

of San Carlos
and State of California

(3) Divyesh Jadav
County of Santa Clara

of San Jose
and State of California

(4) Jaishankar Moothedath Menon
County of Santa Clara

of San Jose
and State of California

(5) Prashant Pandey
County of ~~Alameda~~ Santa Clara

of ~~Fremont~~ San Jose
and State of California

(6) Jian Xu
County of Santa Clara

of San Jose
and State of California

(7) Ramachandran Gopalakrishna Menon
County of Santa Clara

of Sunnyvale
and State of California

(8) Tzongyu Paul Lee
County of Santa Clara

of Campbell
and State of California

have invented certain improvement in

TITLE
METHOD, SYSTEM, AND PROGRAM FOR MANAGING INPUT/OUTPUT (I/O) PERFORMANCE
BETWEEN HOST SYSTEMS AND STORAGE VOLUMES

SERIAL NO. 10/663,559

FILING DATE September 15, 2003


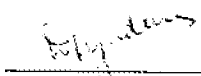
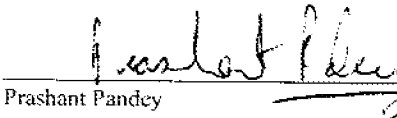
DATES THAT INVENTORS SIGNED THE DECLARATION
and executed, respectively, a United States patent application therefore on
(1) April 17, 2006, (2) _____, 2006, (3) February 16, 2006, (4) _____, 2006,
(5) February 15, 2006, (6) _____, 2006, (7) _____, 2006, and (8) _____, 2006

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), 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 CORPORATION, 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 CORPORATION, its successors and assigns; and I hereby agree that IBM CORPORATION 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 CORPORATION.

Signed and sealed

CITY DATE	(1) at <u>San Jose</u> on <u>April 17</u> , 2006,	 _____ David Darden Chambliss	SIGNATURE INVENTOR
CITY DATE	(2) at _____ on _____, 2006,	_____ Bruce Light Hillsberg	SIGNATURE INVENTOR
CITY DATE	(3) at <u>San Jose</u> on <u>February 10</u> , 2006,	 _____ Divyesh Jadav	SIGNATURE INVENTOR
CITY DATE	(4) at _____ on _____, 2006,	_____ Jaishankar Moothedath Menon	SIGNATURE INVENTOR
CITY DATE	(5) at <u>5:15 PM SANJOSE</u> on <u>February 15</u> , 2006,	 _____ Prashant Pandey	SIGNATURE INVENTOR
CITY DATE	(6) at _____ on _____, 2006,	_____ Jian Xu	SIGNATURE INVENTOR
CITY DATE	(7) at _____ on _____, 2006,	_____ Ramachandran Gopalakrishna Menon	SIGNATURE INVENTOR
CITY DATE	(8) at _____ on _____, 2006,	_____ Tzongyu Paul Lee	SIGNATURE INVENTOR

ASSIGNMENT

Whereas, we

INVENTOR
AND CITY

(1) David Darden Chambliss County of Santa Clara	of Morgan Hill and State of California
(2) Bruce Light Hillsberg County of San Mateo	of San Carlos and State of California
(3) Divyesh Jadav County of Santa Clara	of San Jose and State of California
(4) Jaishankar Moothedath Menon County of Santa Clara	of San Jose and State of California
(5) Prashant Pandey County of Alameda	of Fremont and State of California
(6) Jian Xu County of Santa Clara	of San Jose and State of California
(7) Ramachandran Gopalakrishna Menon County of Santa Clara	of Sunnyvale and State of California
(8) Tzongyu Paul Lee County of Santa Clara	of Campbell and State of California

have invented certain improvement in

TITLE

METHOD, SYSTEM, AND PROGRAM FOR MANAGING INPUT/OUTPUT (I/O) PERFORMANCE
BETWEEN HOST SYSTEMS AND STORAGE VOLUMES

SERIAL NO.

10/663,559

FILING DATE

September 15, 2003

DATES THAT
INVENTORS
SIGNED THE
DECLARATION

and executed, respectively, a United States patent application therefore on
(1) _____, 2006, (2) 2-28, 2006, (3) _____, 2006, (4) _____, 2006,
(5) _____, 2006, (6) _____, 2006, (7) _____, 2006, and (8) _____, 2006

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), 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 CORPORATION, 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 CORPORATION, its successors and assigns: and I hereby agree that IBM CORPORATION 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 CORPORATION.

Signed and sealed

CITY (1) at _____ SIGNATURE
DATE on _____, 2006. David Darden Chambliss INVENTOR

CITY (2) at San Jose SIGNATURE
DATE on 2/28, 2006.  Bruce Light Hillsberg INVENTOR

CITY (3) at _____ SIGNATURE
DATE on _____, 2006. Divyesh Jadav INVENTOR

CITY (4) at _____ SIGNATURE
DATE on _____, 2006. Jaishankar Moothedath Menon INVENTOR

CITY (5) at _____ SIGNATURE
DATE on _____, 2006. Prashant Pandey INVENTOR

CITY (6) at _____ SIGNATURE
DATE on _____, 2006. Jian Xu INVENTOR

CITY (7) at _____ SIGNATURE
DATE on _____, 2006. Ramachandran Gopalakrishna Menon INVENTOR

CITY (8) at _____ SIGNATURE
DATE on _____, 2006. Tzongyu Paul Lee INVENTOR

ASSIGNMENT

Whereas, we

INVENTOR
AND CITY

- (1) David Darden Chambliss
County of Santa Clara of Morgan Hill
and State of California
- (2) Bruce Light Hillsberg
County of San Mateo of San Carlos
and State of California
- (3) Divyesh Jadav
County of Santa Clara of San Jose
and State of California
- (4) Jaishankar Moothedath Menon
County of Santa Clara of San Jose
and State of California
- (5) Prashant Pandey
County of Alameda of Fremont
and State of California
- (6) Jian Xu
County of Santa Clara of San Jose
and State of California
- (7) Ramachandran Gopalakrishna Menon
County of Santa Clara of Sunnyvale
and State of California
- (8) Tzongyu Paul Lee
County of Santa Clara of Campbell
and State of California

have invented certain improvement in

TITLE METHOD, SYSTEM, AND PROGRAM FOR MANAGING INPUT/OUTPUT (I/O) PERFORMANCE
BETWEEN HOST SYSTEMS AND STORAGE VOLUMES

SERIAL NO. 10/663,559

FILING DATE September 15, 2003

DATES THAT INVENTORS SIGNED THE DECLARATION and executed, respectively, a United States patent application therefore on
(1) _____, 2006, (2) _____, 2006, (3) _____, 2006, (4) 4/28, 2006,
(5) _____, 2006, (6) _____, 2006, (7) _____, 2006, and (8) _____, 2006

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), 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 CORPORATION, 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 CORPORATION, its successors and assigns; and I hereby agree that IBM CORPORATION 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 CORPORATION.

Signed and sealed

CITY DATE	(1) at _____ on _____, 2006,	_____ David Darden Chambliss	SIGNATURE INVENTOR
CITY DATE	(2) at _____ on _____, 2006,	_____ Bruce Light Hillsberg	SIGNATURE INVENTOR
CITY DATE	(3) at _____ on _____, 2006,	_____ Divyesh Jadav	SIGNATURE INVENTOR
CITY DATE	(4) at <u>San Jose, CA</u> on <u>4/28</u> , 2006,	<u>Jaishankar Moothedath Menon</u> Jaishankar Moothedath Menon	SIGNATURE INVENTOR
CITY DATE	(5) at _____ on _____, 2006,	_____ Prashant Pandey	SIGNATURE INVENTOR
CITY DATE	(6) at _____ on _____, 2006,	_____ Jian Xu	SIGNATURE INVENTOR
CITY DATE	(7) at _____ on _____, 2006,	_____ Ramachandran Gopalakrishna Menon	SIGNATURE INVENTOR
CITY DATE	(8) at _____ on _____, 2006,	_____ Tzongyu Paul Lee	SIGNATURE INVENTOR

ASSIGNMENT

Whereas, we

INVENTOR
AND CITY

(1) David Darden Chambliss County of Santa Clara	of Morgan Hill and State of California
(2) Bruce Light Hillsberg County of San Mateo	of San Carlos and State of California
(3) Divyesh Jadav County of Santa Clara	of San Jose and State of California
(4) Jaishankar Moothedath Menon County of Santa Clara	of San Jose and State of California
(5) Prashant Pandey County of Alameda	of Fremont and State of California
(6) Jian Xu County of Santa Clara	of San Jose and State of California
(7) Ramachandran Gopalakrishna Menon County of Santa Clara	of Sunnyvale and State of California
(8) Tzongyu Paul Lee County of Santa Clara	of Campbell and State of California

have invented certain improvement in

TITLE

METHOD, SYSTEM, AND PROGRAM FOR MANAGING INPUT/OUTPUT (I/O) PERFORMANCE
BETWEEN HOST SYSTEMS AND STORAGE VOLUMES

SERIAL NO.

10/663,559

FILING DATE

September 15, 2003

DATES THAT
INVENTORS
SIGNED THE
DECLARATION

and executed, respectively, a United States patent application therefore on
(1) _____, 2006, (2) _____, 2006, (3) _____, 2006, (4) _____, 2006,
(5) _____, 2006, (6) April 24, 2006, (7) _____, 2006, and (8) _____, 2006

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), 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 CORPORATION, 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 CORPORATION, its successors and assigns; and I hereby agree that IBM CORPORATION 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 CORPORATION.

Signed and sealed

CITY DATE (1) at _____ on _____, 2006, David Darden Chambliss SIGNATURE INVENTOR

CITY DATE (2) at _____ on _____, 2006, Bruce Light Hillsberg SIGNATURE INVENTOR

CITY DATE (3) at _____ on _____, 2006, Divyesh Jadav SIGNATURE INVENTOR

CITY DATE (4) at _____ on _____, 2006, Jaishankar Moothedath Menon SIGNATURE INVENTOR

CITY DATE (5) at _____ on _____, 2006, Prashant Pandey SIGNATURE INVENTOR

CITY DATE (6) at Shanghai (China) on April, 24, 2006, Jian Xu SIGNATURE INVENTOR

CITY DATE (7) at _____ on _____, 2006, Ramachandran Gopalakrishna Menon SIGNATURE INVENTOR

CITY DATE (8) at _____ on _____, 2006, Tzongyu Paul Lee SIGNATURE INVENTOR

ASSIGNMENT

Whereas, we

INVENTOR
AND CITY

- (1) David Darden Chambliss
County of Santa Clara
of Morgan Hill
and State of California
- (2) Bruce Light Hillsberg
County of San Mateo
of San Carlos
and State of California
- (3) Divyesh Jaday
County of Santa Clara
of San Jose
and State of California
- (4) Jaishankar Moothedath Menon
County of Santa Clara
of San Jose
and State of California
- (5) Prashant Pandey
County of Alameda
of Fremont
and State of California
- (6) Jian Xu
County of Santa Clara
of San Jose
and State of California
- (7) Ramachandran Gopalakrishna Menon
County of Santa Clara
of Sunnyvale
and State of California
- (8) Tzongyu Paul Lee
County of Santa Clara
of Campbell
and State of California

have invented certain improvement in

TITLE

METHOD, SYSTEM, AND PROGRAM FOR MANAGING INPUT/OUTPUT (I/O) PERFORMANCE
BETWEEN HOST SYSTEMS AND STORAGE VOLUMES

SERIAL NO.

10/663,559

FILING DATE

September 15, 2003

DATES THAT
INVENTORS
SIGNED THE
DECLARATION

and executed, respectively, a United States patent application therefore on
(1) _____, 2006, (2) _____, 2006, (3) _____, 2006, (4) _____, 2006,
(5) _____, 2006, (6) _____, 2006, (7) 4/21, 2006, and (8) _____, 2006

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), 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 CORPORATION, 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 CORPORATION, its successors and assigns; and I hereby agree that IBM CORPORATION 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 CORPORATION.

Signed and sealed

CITY _____
DATE _____ (1) at _____
on _____, 2006. David Darden Chambliss SIGNATURE
INVENTOR

CITY _____
DATE _____ (2) at _____
on _____, 2006. Bruce Light Hillsberg SIGNATURE
INVENTOR

CITY _____
DATE _____ (3) at _____
on _____, 2006. Divyesh Jadav SIGNATURE
INVENTOR

CITY _____
DATE _____ (4) at _____
on _____, 2006. Jaishankar Moothedath Menon SIGNATURE
INVENTOR

CITY _____
DATE _____ (5) at _____
on _____, 2006. Prashant Pandey SIGNATURE
INVENTOR

CITY _____
DATE _____ (6) at _____
on _____, 2006. Jian Xu SIGNATURE
INVENTOR

CITY _____
DATE _____ (7) at Menlo Park
on 4/21, 2006.  SIGNATURE
INVENTOR

CITY _____
DATE _____ (8) at _____
on _____, 2006. Tzongyu Paul Lee SIGNATURE
INVENTOR

ASSIGNMENT

Whereas, we

INVENTOR
AND CITY

- (1) David Darden Chambliss
County of Santa Clara of Morgan Hill
and State of California
- (2) Bruce Light Hillsberg
County of San Mateo of San Carlos
and State of California
- (3) Divyesh Jadav
County of Santa Clara of San Jose
and State of California
- (4) Jaishankar Moothedath Menon
County of Santa Clara of San Jose
and State of California
- (5) Prashant Pandey
County of Alameda of Fremont
and State of California
- (6) Jian Xu
County of Santa Clara of San Jose
and State of California
- (7) Ramachandran Gopalakrishna Menon
County of Santa Clara of Sunnyvale
and State of California
- (8) Tzongyu Paul Lee
County of Santa Clara of Campbell
and State of California

have invented certain improvement in

TITLE

METHOD, SYSTEM, AND PROGRAM FOR MANAGING INPUT/OUTPUT (I/O) PERFORMANCE
BETWEEN HOST SYSTEMS AND STORAGE VOLUMES

SERIAL NO.

10/663,559

FILING DATE

September 15, 2003

DATES THAT
INVENTORS
SIGNED THE
DECLARATION


and executed, respectively, a United States patent application therefore on
(1) _____, 2006, (2) _____, 2006, (3) _____, 2006, (4) _____, 2006,
(5) _____, 2006, (6) _____, 2006, (7) _____, 2006, and (8) Feb. 9, 2006

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), 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 CORPORATION, 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 CORPORATION, its successors and assigns; and I hereby agree that IBM CORPORATION 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 CORPORATION.

Signed and sealed

CITY DATE	(1) at _____ on _____, 2006,	_____ David Darden Chambliss	SIGNATURE INVENTOR
CITY DATE	(2) at _____ on _____, 2006,	_____ Bruce Light Hillsberg	SIGNATURE INVENTOR
CITY DATE	(3) at _____ on _____, 2006,	_____ Divyesh Jadav	SIGNATURE INVENTOR
CITY DATE	(4) at _____ on _____, 2006,	_____ Jaishankar Moothedath Menon	SIGNATURE INVENTOR
CITY DATE	(5) at _____ on _____, 2006,	_____ Prashant Pandey	SIGNATURE INVENTOR
CITY DATE	(6) at _____ on _____, 2006,	_____ Jian Xu	SIGNATURE INVENTOR
CITY DATE	(7) at _____ on _____, 2006,	_____ Ramachandran Gopalakrishna Menon	SIGNATURE INVENTOR
CITY DATE	(8) at <u>Campbell, California</u> on <u>Feb. 9</u> , 2006,	 Tzongyu Paul Lee	SIGNATURE INVENTOR