

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT												
NATURE OF CONVEYANCE:	Corrective Assignment to correct the listing of Assignors, remove the erroneous assignment filed 1/22/04 and re-record original assignment previously recorded on Reel 014238 Frame 0416. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNORS INTEREST.												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Dengfeng Gao</td> <td>09/30/2003</td> </tr> <tr> <td>Ihab F Ilyas</td> <td>09/30/2003</td> </tr> <tr> <td>Eileen Tien Lin</td> <td>09/30/2003</td> </tr> <tr> <td>Guy Maring Lohman</td> <td>09/30/2003</td> </tr> <tr> <td>Jun Rao</td> <td>09/30/2003</td> </tr> </tbody> </table>		Name	Execution Date	Dengfeng Gao	09/30/2003	Ihab F Ilyas	09/30/2003	Eileen Tien Lin	09/30/2003	Guy Maring Lohman	09/30/2003	Jun Rao	09/30/2003
Name	Execution Date												
Dengfeng Gao	09/30/2003												
Ihab F Ilyas	09/30/2003												
Eileen Tien Lin	09/30/2003												
Guy Maring Lohman	09/30/2003												
Jun Rao	09/30/2003												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>INTERNATIONAL BUSINESS MACHINES CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>NEW ORCHARD ROAD</td> </tr> <tr> <td>City:</td> <td>ARMONK</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10504</td> </tr> </table>		Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION	Street Address:	NEW ORCHARD ROAD	City:	ARMONK	State/Country:	NEW YORK	Postal Code:	10504		
Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION												
Street Address:	NEW ORCHARD ROAD												
City:	ARMONK												
State/Country:	NEW YORK												
Postal Code:	10504												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>7356526</td> </tr> </tbody> </table>		Property Type	Number	Patent Number:	7356526								
Property Type	Number												
Patent Number:	7356526												
CORRESPONDENCE DATA													
Fax Number:	(408)927-3375												
Phone:	408-927-3364												
Email:	gendotti@almaden.ibm.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	IBM Almaden Research Center												
Address Line 1:	650 Harry Road												
Address Line 2:	IP Law Dept												
Address Line 4:	San Jose, CALIFORNIA 95120												

CH \$40.00 7356526

ATTORNEY DOCKET NUMBER:	ARC920030045US1
NAME OF SUBMITTER:	Brian Lambert
<p>Total Attachments: 12</p> <p>source=ARC920030045US1_assign#page1.tif source=ARC920030045US1_assign#page2.tif source=ARC920030045US1_assign#page3.tif source=ARC920030045US1_assign#page4.tif source=ARC920030045US1_assign#page5.tif source=ARC920030045US1_assign#page6.tif source=ARC920030045US1_assign#page7.tif source=ARC920030045US1_assign#page8.tif source=ARC920030045US1_assign#page9.tif source=ARC920030045US1_assign#page10.tif source=ARC920030045US1_assign#page11.tif source=ARC920030045US1_assign#page12.tif</p>	

RECORDATION FORM COVER SHEET

PATENTS ONLY

HONORABLE COMMISSIONER OF
PATENTS AND TRADEMARKS
WASHINGTON, DC 20231

SIR:

PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENT(S) OR COPY(IES) THEREOF.

1. NAME OF CONVEYING PARTY(IES)

Investor: Dengfeng Gao
Address: 2000 E. River Road, H-11
City, State Zip: Tucson, AZ 85718

Additional name(s) of conveying party(ies) attached? Yes

2. NAME(S) AND ADDRESS(ES) OF RECEIVING PARTY(IES)

Company: International Business Machines Corporation
Address: New Orchard Road
City, State Zip: Armonk, NY 10504

Additional name(s) of receiving party(ies) attached? No

3. NATURE OF CONVEYANCE

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

Execution Date:

SEE ATTACHED DOCUMENT(S)

4. APPLICATION NUMBER(S) OR PATENT NUMBER(S)

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

A. Patent Application Number(s): 09673,433

B. Patent Number(s) _____

Additional numbers attached? No

5. NAME AND ADDRESS OF PARTY TO WHOM CORRESPONDENCE CONCERNING DOCUMENT SHOULD BE DIRECTED:

Randy W. Lacasse
Lacasse & Associates, LLC
1725 Duke Street
Suite 650
Alexandria, VA 22314
(703) 838-7683

6. TOTAL NUMBER OF APPLICATIONS AND PATENTS INVOLVED: 1

7. TOTAL FEE DUE: \$40.00

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.

Ramraj Soundararajan
Name

Ramraj Soundararajan
Signature

01/07/2004
Date

Total number of pages including cover sheet, attachment(s), and assignment document(s): 11

Additional Name(s) and Address(es) of Conveying Party(ies):

Inventor: Rhab F. Hvas
Address: 209 Airport Road #15
City, State Zip: West Lafayette, IN 47906

Inventor: Eileen Tien Lin
Address: 1192 Starling Ridge Court
City, State Zip: San Jose, CA 95120

Inventor: Guy Maring Lohman
Address: 266 North Creek Drive
City, State Zip: San Jose, CA 95139

Inventor: Jun Rao
Address: 150 Palm Valley Blvd #3162
City, State Zip: San Jose, CA 95123

ASSIGNMENT

Whereas, we,

- | | | |
|-----|--|---------------------------------------|
| (1) | Dengfeng Gao
County of Pima | of Tucson
and State of AZ, |
| (2) | Ihab F. Ilyas
County of Tippecanoe | of West Lafayette
and State of IN, |
| (3) | Eileen Tien Lin
County of Santa Clara | of San Jose
and State of CA, |
| (4) | Guy Maring Lohman
County of Santa Clara | of San Jose
and State of CA, |
| (5) | Jun Rao
County of Santa Clara | of San Jose
and State of CA, |

have invented certain improvements in

Estimating the Compilation Time of a Query Optimizer

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

- (1) 9/30, 2003, (2) _____, 2003, (3) _____, 2003, (4) _____, 2003, (5) _____, 2003.

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 therefore;

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 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 Tucson, AZ _____
 on 9/30, 2003 _____
 Dengfeng Gao

(2) at _____
on _____, 2003 Ihab F. Ilyas

(3) at _____
on _____, 2003 Eileen Tien Lin

(4) at _____
on _____, 2003 Guy Maring Lohman

(5) at _____
on _____, 2003 Jun Rao

ASSIGNMENT

Whereas, we,

- | | | |
|-----|--|---------------------------------------|
| (1) | Dengfeng Gao
County of Pima | of Tucson
and State of AZ, |
| (2) | Ihab F. Ilyas
County of Tippecanoe | of West Lafayette
and State of IN, |
| (3) | Eileen Tien Lin
County of Santa Clara | of San Jose
and State of CA, |
| (4) | Guy Maring Lohman
County of Santa Clara | of San Jose
and State of CA, |
| (5) | Jun Rao
County of Santa Clara | of San Jose
and State of CA, |

have invented certain improvements in

Estimating the Compilation Time of a Query Optimizer

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

- (1) _____, 2003, (2) 09/30, 2003, (3) _____, 2003, (4)
_____, 2003, (5) _____, 2003.

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 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 _____
on _____, 2003 Dengfeng Gao

(2) at West Lafayette, IN
on 09/30, 2003

Ihab F. Ilyas
Ihab F. Ilyas

(3) at _____
on _____, 2003

Eileen Tien Lin

(4) at _____
on _____, 2003

Guy Maring Lohman

(5) at _____
on _____, 2003

Jun Rao

ASSIGNMENT

Whereas, we,

- | | | |
|-----|--|---------------------------------------|
| (1) | Dengfeng Gao
County of Pima | of Tucson
and State of AZ, |
| (2) | Ihab F. Ilyas
County of Tippecanoe | of West Lafayette
and State of IN, |
| (3) | Eileen Tien Lin
County of Santa Clara | of San Jose
and State of CA, |
| (4) | Guy Maring Lohman
County of Santa Clara | of San Jose
and State of CA, |
| (5) | Jun Rao
County of Santa Clara | of San Jose
and State of CA, |

have invented certain improvements in

Estimating the Compilation Time of a Query Optimizer

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

- (1) _____, 2003, (2) _____, 2003, (3) 9-30, 2003, (4)
_____, 2003, (5) _____, 2003.

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 therefore;

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 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 _____
on _____, 2003 Dengfeng Gao

(2) at _____
on _____, 2003

Ihab F. Ilyas

(3) at San Jose, CA
on 9-30, 2003

Eileen Tien Lin

Eileen Tien Lin

(4) at _____
on _____, 2003

Guy Maring Lohman

(5) at _____
on _____, 2003

Jun Rao

ASSIGNMENT

Whereas, we,

- | | | |
|-----|--|---------------------------------------|
| (1) | Dengfeng Gao
County of Pima | of Tucson
and State of AZ, |
| (2) | Ihab F. Ilyas
County of Tippecanoe | of West Lafayette
and State of IN, |
| (3) | Eileen Tien Lin
County of Santa Clara | of San Jose
and State of CA, |
| (4) | Guy Maring Lohman
County of Santa Clara | of San Jose
and State of CA, |
| (5) | Jun Rao
County of Santa Clara | of San Jose
and State of CA, |

have invented certain improvements in

Estimating the Compilation Time of a Query Optimizer

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

(1) _____, 2003, (2) _____, 2003, (3) _____, 2003, (4)
30 September, 2003, (5) _____, 2003.

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 therefore;

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 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 _____
on _____, 2003 Dengfeng Gao

(2) at _____
on _____, 2003 Ihab F. Ilyas

(3) at _____
on _____, 2003 Eileen Tien Lin

(4) at San Jose, CA
on 30 September, 2003 Guy Maring Lohman
Guy Maring Lohman

(5) at _____
on _____, 2003 Jun Rao

ASSIGNMENT

Whereas, we,

- | | | |
|-----|--|---------------------------------------|
| (1) | Dengfeng Gao
County of Pima | of Tucson
and State of AZ, |
| (2) | Ihab F. Ilyas
County of Tippecanoe | of West Lafayette
and State of IN, |
| (3) | Eileen Tien Lin
County of Santa Clara | of San Jose
and State of CA, |
| (4) | Guy Maring Lohman
County of Santa Clara | of San Jose
and State of CA, |
| (5) | Jun Rao
County of Santa Clara | of San Jose
and State of CA, |

have invented certain improvements in

Estimating the Compilation Time of a Query Optimizer

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

(1) _____, 2003, (2) _____, 2003, (3) _____, 2003, (4)
_____, 2003, (5) 9-30 _____, 2003.

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 therefore;

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 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.

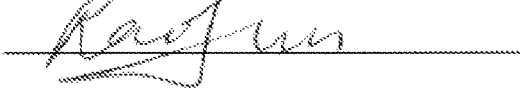
Signed and sealed:

(1) at _____
on _____, 2003 Dengfeng Gao

(2) at _____
on _____, 2003 Ihab F. Ilyas

(3) at _____
on _____, 2003 Eileen Tien Lin

(4) at _____
on _____, 2003 Guy Maring Lohman

(5) at San Jose CA
on Sep 30, 2003 
Jun Rao