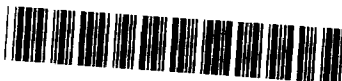


07-19-2000

Attorney Docket: CA9990048US1/1718P

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To the Assistant Commissioner of Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): **Tony Wen Hsun Lai**

Additional name(s) of conveying party(ies) attached Yes No

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

Name: **International Business Machines Corporation**

Street Address: **New Orchard Road**

City: **Armonk** State: **NY** ZIP: **10504**

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance: **XX Assignment**

Execution Date(s): **June 19, 2000**

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: **June 19, 2000**

A. Patent Application No.(s) Additional numbers attached? Yes No

B. Patent No.(s) Additional numbers attached: Yes No

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

Name: **Joseph A. Sawyer, Jr.**
Internal
Address: **Sawyer Law Group LLP**
Street
Address: **P.O. Box 51418**
Palo Alto, California 94303

6. Total Number of applications and patents involved: **One**

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

Enclosed

Authorized to be charged to deposit account

8. Deposit Account Number: **02-2120** (Sawyer Law Group LLP)

(Attach copy of this page)

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.

7/5/00
Date

Joseph A. Sawyer, Jr.
Joseph A. Sawyer, Jr., Reg. No. 301801

Total number of pages including cover sheet, attachments, and documents: 2

ASSIGNMENT

Whereas, I

INVENTOR AND CITY (1) **Tony Wen Hsun Lai** of **Toronto,**
Province of **Ontario,** and Country of **Canada**

has invented certain improvements in

TITLE **METHOD AND APPARATUS FOR ANALYZING DATA RETRIEVAL USING INDEX SCANNING**

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

DATE(s) THAT THE INVENTOR(s) SIGNED THE DECLARATION (1) June 19, 2000

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:
CITY (1) at Toronto Tony Wen Hsun Lai SIGNATURE
Tony Wen Hsun Lai INVENTOR
DATE on June 19, 2000