

11-10-1998



To the Honorable Commissioner of Patent

100875072

original documents or copy thereof.

11/5/98

1. Name of conveying party(ies):

Francisco P. Curbera and David A. Epstein

Additional names of conveying party(ies) attached?

yes no

3. Nature of Conveyance

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

Execution Date: November 5, 1998

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

Name: International Business Machines Corporation

Internal Address: _____

Street Address: New Orchard Road

City Armonk

State New York Zip 10504

Additional name(s) & address(es) attached? yes no

jc518 U.S. PTO
09/186094



11/05/98

4. Application number(s) or patent number(s):

Title: QUICK DIFFERENCE AND UPDATE FOR TREE STRUCTURE DATA

If this document is being filed together with a new application, the execution date of the application is November 5, 1998

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:

C. Lamont Whitham, Esq.
Whitham, Curtis & Whitham
Reston International Center
11800 Sunrise Valley Drive, Suite 900
Reston, Virginia 20191

6. Total number of applications and patents involved: 1

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

- Enclosed
- Authorized to be charged to deposit account
 - Total fee due
 - Any deficiencies in the enclosed fees

11/10/1998 DNGUYEN 00000190 500510 09186094

01 FC:381 40.00 CH

8. Deposit account number:

50-0510/IBM (Yorktown Heights)

DO NOT USE THIS SPACE

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.

C. Lamont Whitham
Registration 22,424
Tel.: (703) 391-2510

Signature

11/5/98
Date

Total number of pages including cover sheet, attachments, and document: 3

ASSIGNMENT

Whereas, we

Inventor and city	(1) Francisco P. Curbera Borough of Bronx	City of New York and State of New York
Inventor and city	(2) David A. Epstein County of Westchester	City of Ossining and State of New York

have invented certain improvements in

TITLE QUICK DIFFERENCE AND UPDATE FOR TREE STRUCTURED DATA

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

DATE THAT (1) November 5, 1998, and (2) November 5, 1998.

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.

(1) Signed and sealed
 CITY at IBM Corporation, Hawthorne, NY
 DATE on November 5 1998, Francisco P. Curbera SIGNATURE
 Francisco P. Curbera INVENTOR
 FIRST NAME MIDDLE INITIAL LAST NAME

On this 5th day of November 1998 before me personally came

(1) INVENTOR Francisco P. Curbera to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

State of
County of

Adwayne M. Redd
Notary

ADWAYNA M. REDD
Notary Public, State of New York
No. DIRE4944036
in Westchester County
Expires November 14, 1998

CITY
DATE

(2) Signed and sealed
at 184 Carpenter, Hawthorne, NJ
on November 5, 1998.

David A. Epstein

David A. Epstein
FIRST NAME MIDDLE INITIAL LAST NAME

SIGNATURE
INVENTOR

On this 5th day of November 1998 before me personally came

(2) INVENTOR David A. Epstein to me personally known, and known to me to be the person described in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed.

State of
County of

Raymond M. Redd
Notary

RAYMOND M. REDD
Notary, State of New York
No. 01RE4944056
in Westchester County
Expires November 14, 1998