

08-05-1999



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To the Assistant Commissioner of 1
documents or copy thereof.

Attached original

1525 U.S. PTO
09/163463
07/29/99

1. Name of conveying party(ies):

James Allan Kahle
Hung Qui Le
Lee Evan Eisen
John Edward Derrick
Robert William Hay2. Name and address of
receiving party(ies):International Business
Machines Corporation
New Orchard Road
Armonk, New York 10504

3. Nature of conveyance:

X AssignmentExecution Dates: July 26, 1999, July 23, 1999, July 23, 1999, July 23, 1999 and
July 26, 1999

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 July 26, 1999, July 23, 1999, July 23, 1999,
July 23, 1999 and July 26, 1999

A. Patent Application No.(s)

B. Patent No.(s)

09/363463

5. Name and address of party to whom
correspondence concerning document
should be mailed:Anthony V.S. England, Esq.
IBM Corporation
Intellectual Property Law
Internal Zip 4054
11400 Burnet Road
Austin, TX 78758
(512) 823-66406. Total number of applications
and patents involved: 17. Total fee (37 CFR 3.41) \$ 40.00X Authorized to be charged to C
deposit account8. IBM Corporation Deposit account number:
09-0447

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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.

Dan Venglarik

Name of Person Signing

for FELSMAN, BRADLEY, VADEN, GUNTER & DILLON, LLP

Date

29 July 1999

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Total number of pages including cover sheet: 3

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A S S I G N M E N T

Whereas, we,

(1) James A. Kahle of Austin,
County of Travis and State of Texas,(2) Hung Q. Le of Austin,
County of Williamson and State of Texas,(3) Lee E. Eisen of Austin,
County of Travis and State of Texas,(4) John E. Derrick of Round Rock,
County of Williamson and State of Texas,and
(5) Robert W. Hay of Austin,
County of Travis and State of Texas,

have invented certain improvements in

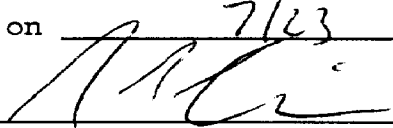
XER SCOREBOARD MECHANISMand executed, respectively, a United States patent application therefor on (1) July 26, 1999, and (2) 7/23, 1999, and
(3) 7/23, 1999, and (4) 7/23, 1999, and
(5) July 26, 1999.

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.

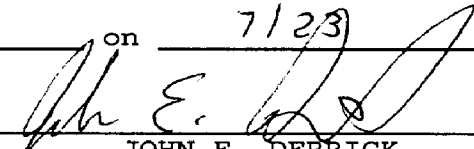
(1) Signed at Austin on July 26, 1999.
JAMES A. KAHLE(2) Signed at Austin on 7/23, 1999.
HUNG Q. LE

(3) Signed at Austin on 7/23, 1999.



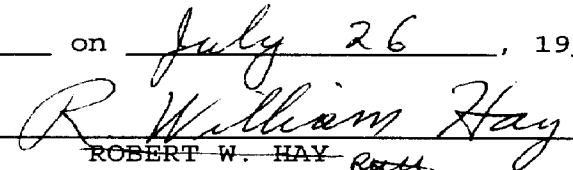
LEE E. EISEN

(4) Signed at Austin on 7/23, 1999.



JOHN E. DERRICK

(5) Signed at Austin on July 26, 1999.



~~ROBERT W. HAY~~ *Hay*

R. William Hay