FORM PTO-1595 (Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

R

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

## MED 11.30.49

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| 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 _X_No   |
| 19665   |
| n, the execution date of the application is: November 29, 199   |
| B. Patent No(s).  |
| 6. Total number of applications and patents involved  |
|   |
| <ul><li>6. Total number of applications and patents involved</li><li>7. Total fee (37 CFR §3.41): \$_40.00_</li></ul>   |
| <ul> <li>7. Total fee (37 CFR §3.41): \$ 40.00</li> <li>X Enclosed</li> <li>Authorized to be charged to deposit account</li> <li>8. Please charge any additional fees or credit any</li> </ul>  |
| X Enclosed Authorized to be charged to deposit account  |
| <ul> <li>7. Total fee (37 CFR §3.41): \$_40.00</li> <li>X Enclosed</li> <li>Authorized to be charged to deposit account</li> <li>8. Please charge any additional fees or credit any overpayments to Deposit account number:13-4895</li> </ul> |
| <ul> <li>7. Total fee (37 CFR §3.41): \$_40.00</li> <li>X Enclosed</li> <li>Authorized to be charged to deposit account</li> <li>8. Please charge any additional fees or credit any overpayments to Deposit account number:13-4895</li> </ul> |
|   |

PATENT REEL: 010426 FRAME: 0826

## **ASSIGNMENT**

Whereas I, David Robison Hall, with residence and citizenship as indicated below; have made an invention

## HARD DISK DRIVE EMPLOYING NEURAL NETWORK FOR PERFORMING EXPECTED ACCESS TIME CALCULATIONS

Filed: Herewith Serial No.: Unassigned

and executed an application for Letters Patent of the United States of America based thereon:

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto International Business Machines Corporation ("Company"), a corporation of New York, having its principal office at New Orchard Road, Armonk, New York 10504, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any continued prosecution application, divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

And I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to <u>International Business Machines Corporation</u> as the assignee of the entire right, title, and interest therein.

In witness whereof, I have hereunto signed my name on the day and year set forth below.

| David field  | 11/29/99 |
|--|----------|
| Name: David Robison Hall<br>Address: 3804 18 <sup>th</sup> Avenue N.W.<br>Rochester, MN 55901<br>Citizenship: United States of America | Date     |
| county of <u>Olmsted</u> ) ss.   |          |

On this <u>31</u> day of <u>November</u> 19<u>99</u> before me personally appeared <u>David Robison Hall</u> to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Barb J. Keller

**RECORDED: 11/30/1999** 

in

BARB J. KELLER

NOTARY PUBLIC - MINNESOTA

My Commission Expires Jan. 31, 2000

Page 1 IBM R0999-135 M&R 300.00390101 Assignment

PATENT REEL: 010426 FRAME: 0827