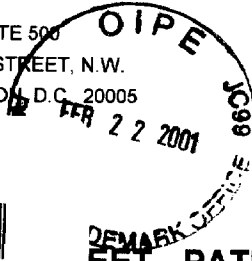


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03-09-2001



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DEMARK OFFICE EET - PATENT APPLICATION

NAME OF CONVEYING PARTY : (1) Gordon Smith and
(2) George Van Leeuwen

NAME OF RECEIVING PARTY : International Business Machines Corporation

ADDRESS OF RECEIVING PARTY : New Orchard Road
Armonk, New York 10504

NATURE OF CONVEYANCE : Assignment of U.S. patent application

CONVEYANCE EXECUTION DATE : (1) November 15, 2000 and
(2) November 16, 2000

PATENT APPLICATION NO. : 09/714,952

APPLICATION FILED TOGETHER
WITH THIS DOCUMENT : No

APPLICATION EXECUTION DATE : (1) November 15, 2000 and
(2) November 16, 2000

CORRESPONDENCE
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ATTORNEY REFERENCE : ROC9-2000-0187-US1-IBM-195

TOTAL NUMBER OF PATENTS
AND APPLICATIONS INVOLVED : One

TOTAL FEE PAID : \$40.00

METHOD OF PAYMENT : Enclosed
 Previously authorized to be charged to
IBM Deposit Account No. 09-0465 with
filing of application on November 20,
2000

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.

Robert H. Berdo, Jr.
(Registration No. 38,075)

February 22, 2001
Date

RHB:rw

Total number of pages including cover sheet, attachments and document: 4

PATENT
REEL: 11554 FRAME: 0973

12-12-2000



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RECORDATION COVER SHEET - PATENT APPLICATION

NAME OF CONVEYING PARTY : Gordon SMITH and George VAN LEEUWEN

NAME OF RECEIVING PARTY : International Business Machines Corporation

ADDRESS OF RECEIVING PARTY : New Orchard Road
Armonk, New York 10504

NATURE OF CONVEYANCE : Assignment of U.S. patent application

CONVEYANCE EXECUTION DATE : 11/15/00 & 11/16/00

PATENT APPLICATION NO. : Unassigned

APPLICATION FILED TOGETHER WITH THIS DOCUMENT : Yes

APPLICATION EXECUTION DATE : 11/15/00 & 11/16/00

CORRESPONDENCE ADDRESS : David S. Lee, Esq.
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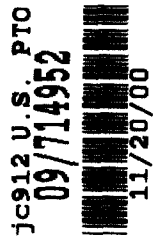
ATTORNEY REFERENCE : IBM 195 RB

IBM REFERENCE : ROC9-2000-0187-US1 09/714952

TOTAL NUMBER OF PATENTS AND APPLICATIONS INVOLVED : One

TOTAL FEE PAID : \$40.00

METHOD OF PAYMENT : [X] Enclosed



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.

David S. Lee
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November 20, 2000
Date

DSL/dbp

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

ASSIGNMENT

Whereas, I

(1) Gordon James Smith, City of Rochester,

County of Olmsted and State of Minnesota,

(2) George Willard Van Leeuwen, City of Rochester,

County of Olmsted and State of Minnesota,

have invented certain improvements in

**METHOD AND APPARATUS FOR ENABLING COLD TEMPERATURE
PERFORMANCE OF A DISK**

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

Dates
Inventor (1) 11/15, 2000.
Signed
Declaration

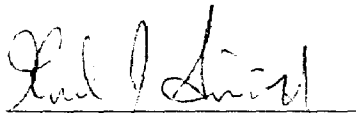
Dates
Inventor (2) 11/16, 2000.
Signed
Declaration

And 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.

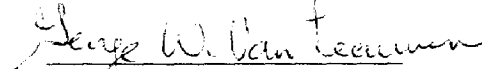
Signed

Inventor (1) at Rochester, MN
on 11/15, 2000.


(Gordon J. Smith)
First Name Initial Last Name

Inventor
Signature

Inventor (2) at Rochester, MN
on 11/16, 2000.


(George W. Van Leeuwen)
First Name Initial Last Name

Inventor
Signature