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US DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

David William Adler
Knut Stolze

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

3. Nature of conveyance:

Assignment

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: May 9, 2002
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:

Name: **Epstein, Edell, Shapiro, Finnan & Lytle, LLC**
Attn: **J. Warren Lytle, Jr.**

Street: **1901 Research Boulevard**
Address: **Suite 400**

City: **Rockville** State: **MD** Zip: **20850-3164**

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

* 7. Total fee (37 CFR 3.41).....\$ **40.00**
* Enclosed
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* 8. Deposit Account Number: 05-0460

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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.

J. Warren Lytle, Jr.

May 10, 2002
Date

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

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PATENT
REEL: 012890 FRAME: 0747

DOCKET: SVL920020013US1
0920.0027C

ASSIGNMENT

Whereas, I

INVENTOR
AND CITY

(1) David William Adler

of Mount Tremper, New York

(2) Knut Stolze

of San Jose, California

have invented certain improvements in

TITLE

REDUCING INDEX SIZE FOR MULTI-LEVEL GRID INDEXES

and executed, respectively, a United States patent application therefor on the following date(s):

DATE THAT
INVENTOR (S)
SIGNED THE
DECLARATION

(1) May 9, 2002 (2) _____, 2002

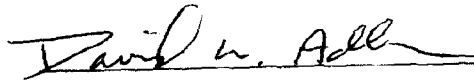
Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, 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 I 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 I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed and sealed

CITY
DATE

(1) at Mount Tremper
on May 9, 2002



SIGNATURE
INVENTOR

CITY
DATE

(2) at _____
on _____, 2002

SIGNATURE
INVENTOR

ASSIGNMENT

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of Mount Tremper, New York

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Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, 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 I 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 I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed and sealed

(1) at _____
on _____, 2002

SIGNATURE
INVENTOR

(2) at San Jose
on May 9th, 2002

Knut Stolze
SIGNATURE
INVENTOR