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Atty. Docket No. CR9-99-035

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<p>1. Name of conveying party(ies): Steffen M. Fohn; Arthur R. Greef; Donald C. Willenborg</p> <p>Additional name(s) of conveying party(ies) attached? ___ Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): Name: IBM Corporation Address: New Orchard Road Armonk, NY 10504</p> <p>Additional name(s) & addresses attached? ___ Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment</p> <p>Execution Date(s): <u>7/23/99; 7/23/99; 7/23/99</u></p>	<p>4. Patent Application number(s)</p> <p>Execution Date(s): <u>7/23/99; 7/23/99; 7/23/99</u></p>
<p>5. Name and address of party to whom correspondence concerning this document should be mailed:</p> <p>Name: A. Bruce Clay Address: IBM Corporation Intellectual Property Law T81/062 P. O. Box 12195 3039 Cornwallis Road RTP, NC 27709</p>	<p>6. Total number of applications involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$40.00 ✓ X Charge to Deposit Account No.: 09-0461 ✓</p>

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A. Bruce Clay *Arthur R. Greef* 7/27/99

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ASSIGNMENT

Whereas, we,

Steffen Michael Fohn
County of **Wake**,

City of **Raleigh**,
and State of **North Carolina**,

and

Arthur Reginald Greef

City of **Seattle**,
and State of **Washington**,

and

Donald Carl Willenborg

City of **Ridgewood**,
and State of **New Jersey**

have invented certain improvements in

INTELLIGENT EXPLORATION THROUGH MULTIPLE HIERARCHIES USING ENTITY RELEVANCE

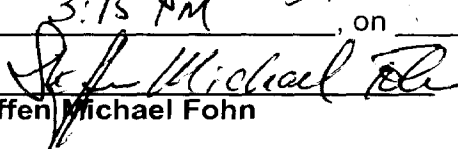
and have executed, respectively, a United States patent application therefor on

(1) 7-23-99, (2) _____, (3) _____

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, 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 invention 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 at:

(1) at 3:15 PM Raleigh, N.C., on 7/23/1999

Steffen Michael Fohn

(2) at _____, on _____.

Arthur Reginald Greef

(3) at _____, on _____.

Donald Carl Willenborg

ASSIGNMENT

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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 invention 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 at:

(1) at _____, on _____.

Steffen Michael Fohn

(2) at KIRKLAND, on 7/23/1999.

Arthur Reginald Greef
Arthur Reginald Greef

(3) at _____, on _____.

Donald Carl Willenborg

ASSIGNMENT

Whereas, we,

Steffen Michael Fohn
County of **Wake**,

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and State of **North Carolina**,

and

Arthur Reginald Greef

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

(1) _____, (2) _____, (3) 17-23-99

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, 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 invention 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 at:

(1) at _____, on _____.

Steffen Michael Fohn

(2) at _____, on _____.

Arthur Reginald Greef

(3) at White Plains, N.Y., on July 23, 1999.

Donald Carl Willenborg
Donald Carl Willenborg