

**PATENT ASSIGNMENT**

Electronic Version v08  
 Stylesheet Version v02

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT OF ASSIGNOR'S INTEREST
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<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Andrei Z. Broder	2005-01-06
Marcus Felipe Fontoura	2004-12-17
Michael Herscovici	2004-12-20
Ronny Lempel	2004-12-20
John Ai McPherson, Jr.	2004-12-30
Andreas Neumann	2004-12-30
Runping Qi	2004-12-17
Eugene J. Shekita	2004-12-17

<b>RECEIVING PARTY DATA</b>					
<b>Name</b>	<b>Street Address</b>	<b>Internal Address</b>	<b>City</b>	<b>State/Country</b>	<b>Postal Code</b>
International Business Machines Corporation	New Orchard Road		Armonk	NEW YORK	10504

<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number	10905604

**CORRESPONDENCE DATA**

FAX NUMBER: 7038387684  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO.

CUSTOMER NUMBER: 026381

<b>NAME OF PERSON SIGNING:</b>	Ramraj Soundararajan
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<b>DATE SIGNED:</b>	2005-01-13
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Total Attachments: 10  
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**PATENT  
 REEL: 015559 FRAME: 0962**

**CH \$40.00 090441 10905604**

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source=ASSIG10.tif

**ASSIGNMENT**

Whereas, we,

- |     |   |                                   |
|-----|---|-----------------------------------|
| (1) | Andrei Z. Broder<br>County of New York City     | of Bronx<br>and State of NY,      |
| (2) | Marcus Felipe Fontoura<br>County of Santa Clara | of Los Gatos<br>and State of CA,  |
| (3) | Michael Herscovici                              | of Haifa, ISRAEL,                 |
| (4) | Ronny Lempel                                    | of Haifa, ISRAEL,                 |
| (5) | John Ai McPherson, Jr.<br>County of Santa Clara | of San Jose<br>and State of CA,   |
| (6) | Dr. Andreas Neumann                             | of Muelheim an der Ruhr, GERMANY, |
| (7) | Runping Qi<br>County of Santa Clara             | of Cupertino<br>and State of CA,  |
| (8) | Eugene J. Shekita<br>County of Santa Clara      | of San Jose<br>and State of CA,   |

have invented certain improvements in

*A Generic Architecture for Indexing Document Groups in an Inverted Text Index*

and executed, respectively, a United States patent application therefore on


- (1) January 6, \_\_\_\_\_, 2005, (2) \_\_\_\_\_, 2004, (3) \_\_\_\_\_, 2004,  
 (4) \_\_\_\_\_, 2004, (5) \_\_\_\_\_, 2004, (6) \_\_\_\_\_, 2004,  
 (7) \_\_\_\_\_, 2004, (8) \_\_\_\_\_, 2004.

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 therefore;

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 inventions 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 and sealed:

(1) at Hawthorne, NY  
on JANUARY 6, 2005

  
\_\_\_\_\_

Andrei Z. Broder

(2) at \_\_\_\_\_  
on \_\_\_\_\_, 2004

\_\_\_\_\_

Marcus Felipe Fontoura

(3) at \_\_\_\_\_  
on \_\_\_\_\_, 2004

\_\_\_\_\_

Michael Herscovici

(4) at \_\_\_\_\_  
on \_\_\_\_\_, 2004

\_\_\_\_\_

Ronny Lempel

(5) at \_\_\_\_\_  
on \_\_\_\_\_, 2004

\_\_\_\_\_

John Ai McPherson, Jr.

(6) at \_\_\_\_\_  
on \_\_\_\_\_, 2004

\_\_\_\_\_

Dr. Andreas Neumann

(7) at \_\_\_\_\_  
on \_\_\_\_\_, 2004

\_\_\_\_\_

Runping Qi

(8) at \_\_\_\_\_  
on \_\_\_\_\_, 2004

\_\_\_\_\_

Eugene J. Shekita

## ASSIGNMENT

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- |     |   |                                   |
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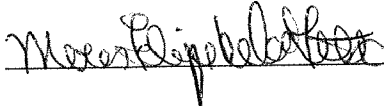
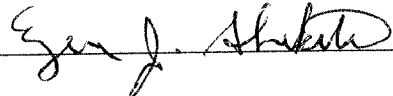
and executed, respectively, a United States patent application therefore on

- (1) \_\_\_\_\_, 2004, (2) Dec. 1<sup>st</sup>, 2004, (3) \_\_\_\_\_, 2004,  
(4) \_\_\_\_\_, 2004, (5) \_\_\_\_\_, 2004, (6) \_\_\_\_\_, 2004,  
(7) \_\_\_\_\_, 2004, (8) Dec 17<sup>th</sup>, 2004.

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Signed and sealed:

- |  |   |
|--|---|
| (1) at _____<br>on _____, 2004                       | _____<br>Andrei Z. Broder   |
| (2) at <u>San Jose</u><br>on <u>Dec. 17th</u> , 2004 | <u></u><br>Marcus Felipe Fontoura |
| (3) at _____<br>on _____, 2004                       | _____<br>Michael Herscovici   |
| (4) at _____<br>on _____, 2004                       | _____<br>Ronny Lempel   |
| (5) at _____<br>on _____, 2004                       | _____<br>John Ai McPherson, Jr.   |
| (6) at _____<br>on _____, 2004                       | _____<br>Dr. Andreas Neumann  |
| (7) at _____<br>on _____, 2004                       | _____<br>Runping Qi   |
| (8) at <u>San Jose</u><br>on <u>Dec 17th</u> , 2004  | <u></u><br>Eugene J. Shekita    |

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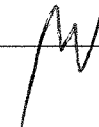
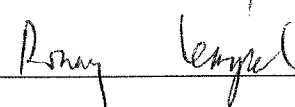
and executed, respectively, a United States patent application therefore on

- (1) \_\_\_\_\_, 2004, (2) \_\_\_\_\_, 2004, (3) December 20, 2004,  
(4) December 20, 2004, (5) \_\_\_\_\_, 2004, (6) \_\_\_\_\_, 2004,  
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- (1) at \_\_\_\_\_  
on \_\_\_\_\_, 2004  
Andrei Z. Broder
- (2) at \_\_\_\_\_  
on \_\_\_\_\_, 2004  
Marcus Felipe Fontoura
- (3) at Haifa Israel  
on December 20, 2004  
  
Michael Herscovici
- (4) at Haifa, Israel  
on December 20, 2004  
  
Ronny Lempel
- (5) at \_\_\_\_\_  
on \_\_\_\_\_, 2004  
John Ai McPherson, Jr.
- (6) at \_\_\_\_\_  
on \_\_\_\_\_, 2004  
Dr. Andreas Neumann
- (7) at \_\_\_\_\_  
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Runping Qi
- (8) at \_\_\_\_\_  
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Eugene J. Shekita



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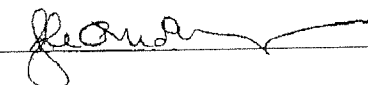
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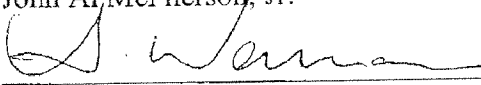
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\_\_\_\_\_  
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(5) at San Jose, CA  
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