

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
David M Cannon	09/13/2007
Matthew J Anglin	09/14/2007
Colin S Dawson	09/13/2007
Erick C Kissel	09/13/2007
Jonathan M Haswell	09/13/2007
Howard N Martin	09/14/2007

RECEIVING PARTY DATA

Name:	International Business Machines, Corporation (IBM)
Street Address:	New Orchard Road
City:	Armonk
State/Country:	NEW YORK
Postal Code:	10504

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	11856688
Application Number:	11856674

CORRESPONDENCE DATA

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Address Line 2: F. Jason Far-hadian, Esq.
Address Line 4: Newport Beach, CALIFORNIA 92658-7333

NAME OF SUBMITTER: F. Jason Far-hadian, Esq.

PATENT

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REEL: 019869 FRAME: 0386

CH \$80.00 11856688

Total Attachments: 4

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PATENT

REEL: 019869 FRAME: 0387

ASSIGNMENT

(1-8) *Insert Name(s) of Inventor(s)*

(1) Matthew J. Anglin
(2) David M. Cannon
(3) Colin S. Dawson
(4) Erick C. Kissel

(5) Howard N. Martin
(6) Jonathan M. Haswell
(7)
(8)

For good and valuable consideration paid to each of the undersigned, the receipt of which is hereby acknowledged, the undersigned hereby sell, assign, and transfer to:

(9) *Insert name of Assignee*

(9) **International Business Machines, Corporation (IBM)**

(10) *Insert state of Incorporation of Assignee*

(10) New York

(11) *Insert address of Assignee*

Of: New Orchard Road
Armonk, New York 10504

(hereinafter designated as the Assignee), and its successor and assigns, the entire worldwide right, title and interest in the invention and application entitled:

(12) *Insert identification of Invention, such as Title, Case Number or Foreign Application Number*

(12) **Data Recovery In a Hierarchical Data Storage System**

for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.

(13) *Insert Date of Signing of Application*

(13-1) Sept 14, 2007, 2007; (13-2) Sept 13, 2007;
(13-3) Sept 13, 2007; (13-4) Sept 13, 2007;
(13-5) Sept. 14, 2007; (13-6) Sept 13, 2007

1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith. We will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

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The undersigned hereby appoints F. JASON FAR-HADIAN, REG. NO. 42,523 AND ALL PERSONS, ATTORNEYS AND AGENTS ASSOCIATED WITH CUSTOMER NO. 60267 the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: <u>Sept 14, 2007</u>	Signature of Inventor (Matthew J. Anglin) <u>Matthew J. Anglin</u>
Date: <u>Sept 15, 2007</u>	Signature of Inventor (David M. Cannon) <u>David M. Cannon</u>
Date: <u>Sept 13, 2007</u>	Signature of Inventor (Colin S. Dawson) <u>Colin S. Dawson</u>
Date: <u>9/13/2007</u>	Signature of Inventor (Erick C. Kissel) <u>Erick C. Kissel</u>
Date: <u>9/14/2007</u>	Signature of Inventor (Howard N. Martin) <u>Howard N. Martin</u>
Date: <u>9/13/2007</u>	Signature of Inventor (Jonathan M. Haswell) <u>Jonathan M. Haswell</u>

ASSIGNMENT

(1-8) *Insert Name(s) of Inventor(s)* (1) Matthew J. Anglin (5) Howard N. Martin
(2) David M. Cannon (6) Jonathan M. Haswell
(3) Colin S. Dawson (7)
(4) Erick C. Kissel (8)
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(9) *Insert name of Assignee* (9) **International Business Machines, Corporation (IBM)**

(10) *Insert state of Incorporation of Assignee* (10) New York

(11) *Insert address of Assignee* Of: New Orchard Road
Armonk, New York 10504
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Date: Sept 14, 2007 Signature of Inventor (Matthew J. Anglin) Matthew J. Anglin
Date: Sept 13, 2007 Signature of Inventor (David M. Cannon) David M. Cannon
Date: Sept 13, 2007 Signature of Inventor (Colin S. Dawson) Colin S. Dawson
Date: 9/13/2007 Signature of Inventor (Erick C. Kissel) Erick C. Kissel
Date: 9/14/2007 Signature of Inventor (Howard N. Martin) Howard N. Martin
Date: Sept 13, 2007 Signature of Inventor (Jonathan M. Haswell) Jonathan M. Haswell