

Atty. Docket No. IL920030062US1

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PATENTS ONLY**

To The Honorable Commissioner of Patents and Trademarks:
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1. Name of conveying party(ies):

Shira Ben Dor
Amir Kredi
Aviad Zlotnick
Henry Butterworth

2. Name and address of receiving party(ies):

Name: International Business
Machines Corporation
Address: New Orchard Road
Armonk, NY 10504

Additional name(s) & addresses attached? Yes No

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

3. Nature of conveyance:

Assignment

Execution Date(s): May 22, 2005, May 22, 2005, April 21, 2005 and June 23, 2005.

4. Patent Application number(s)

11/093,584 Filed March 30, 2005

Execution Date(s): May 22, 2005, May 22, 2005, April 21, 2005 and June 23, 2005.

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Louis P. Herzberg
Address: IBM Corporation
Intellectual Property Law Dept.
P.O. Box 218
Yorktown Heights, NY 10598

6. Total number of applications involved: 1

7. Total fee (37 CFR 3.41): \$40.00

Charge to Deposit Account No.: 09-0468

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8. 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 original document.

Louis P. Herzberg (Reg. No. 41,500) *Louis Herzberg* June 23, 2005
Name of Person Signing Signature Date

Total Number of pages including cover sheet, attachments, and document: 6

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PATENT

CH \$40.00 090468 11093584

(JOINT FORM)

(IBM Docket) IL920030062US1

Page 1 of 2

Assignment

Whereas, we

INVENTOR
AND CITY

(1) Shira Ben Dor

of Givat Shmuel
Israel

INVENTOR
AND CITY

(2) Amir Kredi

of Tel Aviv-Jaffa
Israel

INVENTOR
AND CITY

(3) Aviad Zlotnick

of Tachton
Israel

INVENTOR
AND CITY

(4) Henry Butterworth

of Hampshire
United Kingdom

TITLE

have invented certain improvements in
**WRITE SET BOUNDARY MANAGEMENT IN SUPPORT OF ASYNCHRONOUS
UPDATE OF SECONDARY STORAGE**

DATES THAT
INVENTORS
EXECUTED THE
DECLARATION

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

(1) 2005, (2) 2005,
(3) 2005 and (4) *23/06/05* 2005.

. 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 inventions set forth in said applications 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.

PATENT

REEL: 016399 FRAME: 0547

(JOINT FORM)

(IBM Docket) IL920030062US1

Page 2 of 2

Signed and sealed

CITY AND DATE (1) at on 2004, _____ SIGNATURE
 Shira Ben Dor
 FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE (2) at on 2005, _____ SIGNATURE
 Amir Kredi
 FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE (3) at on 2005, _____ SIGNATURE
 Aviad Zlotnick
 FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE (4) at *HORSLEY* on *23/06* 2005, *Henry E Butterworth* SIGNATURE
 Henry Butterworth
 FIRST NAME MIDDLE INITIAL LAST NAME

PATENT

REEL: 016399 FRAME: 0548

(JOINT FORM)

(IBM Docket) IL920030062US1

Assignment

Whereas, we

INVENTOR
AND CITY

(1) Shira Ben Dor

of Givat Shmuel
Israel

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AND CITY

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of Tel Aviv-Jaffa
Israel

INVENTOR
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(3) Aviad Zlotnick

of Tachton
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INVENTOR
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(4) Henry Butterworth

of Hampshire
United Kingdom

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WRITE SET BOUNDARY MANAGEMENT IN SUPPORT OF ASYNCHRONOUS UPDATE OF SECONDARY STORAGE

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(1) *22 May 05* 2005, (2) *22 May* 2005,
(3) *Apr. 21st,* 2005 and (4) 2005.

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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 applications 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.

(JOINT FORM)

(IBM Docket) IL920030062US1

Signed and sealed

CITY AND DATE TEL AVIV on (1) at 22/05/2005 2004,

Shira Ben Dor SIGNATURE
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE TEL AVIV on (2) at 24/05/2005 2005,

Amir Kred SIGNATURE
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE Anifa on (3) at 21st April 2005,

Aviad Zlotnick SIGNATURE
FIRST NAME MIDDLE INITIAL LAST NAME

CITY AND DATE on (4) at 2005,

Henry Butterworth SIGNATURE
FIRST NAME MIDDLE INITIAL LAST NAME