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In place of Form PTO-1595



Docket No. CA920020044US1

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Jc978 U.S. PTO
10/29/938

11/14/02

To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): (1) Arie Tal (2) Robert J. Blainey <i>11/14/02</i> Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Execution Date: <u>October 29, 2002</u> <u>October 29, 2002</u>
2. Name and address of receiving party(ies): International Business Machines Corporation New Orchard Road Armonk, New York 10504	3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____

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
 (1) October 29, 2002 (2) October 29, 2002

A. Patent Application No.(s) _____ B. Patent No.(s) _____

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

Leslie A. Van Leeuwen
 IBM Corporation
 Intellectual Property Law
 11400 Burnet Road
 Austin, TX 78758
 (512) 823-6746

6. Total number of applications and patents involved: 1**7. Total fee (37 CFR 3.41) \$ 40.00**

☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:09-0447

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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.

Leslie H Van Leeuwen
 Name of Person Signing

Leslie H Van Leeuwen
 Signature

11/13/02
 Date

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Total number of pages including cover sheet: 2

PATENT
REEL: 013521 FRAME: 0673

ASSIGNMENT

Whereas, we,

(1) Arie Tal

of 1201-20 Fontenay Court
Etobicoke, Ontario M9A 4W4, Canada

(2) Robert J. Blainey

of 296 Flanagan Court
Newmarket, Ontario L3X 2E7, Canada

have invented certain improvement in

AN UNROLLING TRANSFORMATION OF NESTED LOOPS

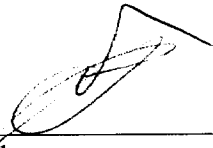
and executed a United States patent application therefore on

(Date Inventor Signed Declaration) (1) October 29, 2002; and (2) October 29, 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 therefore;


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.

(1) Signed at Markham, Ont on October 29, 2002.



Arie Tal

(2) Signed at MARKHAM, ONT on October 29, 2002.



Robert J. Blainey