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4-12-08

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

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

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Office of General Counsel  
  
Street Address:  
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City: Arlington State: VA ZIP: 22203  
  
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If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_  
A. Patent Application No.(s)  
12/024,219  
  
B. Patent No.(s)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Kimberly B. Downey  
  
Internal Address:  
Office of General Counsel  
  
Street Address:  
3701 North Fairfax Drive  
  
City: Arlington State: VA ZIP: 22203

6. Total number of applications and patents involved:   
  
7. Total fee (37 CFR 3.41). . . . . \$40.00  
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01-0280

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Kimberly B. Downey  
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Signature  
  
04/07/08  
Date  
  
04/18/2008 DBYRNE 00000007 010280 12024219  
01 FC:0021 40.00 DA

Total number of pages including cover sheet, attachments, and document:

## CONFIRMATORY INSTRUMENT

APPLICATION FOR: Data Processing System, Processor and Method of Data Processing Having Branch Target Address Cache with Hashed Indices

INVENTOR(S): Sheldon B. Levenstein, David S. Levitan, Lixin Zhang

SERIAL NO. 12/024219	FILING DATE: 02/01/2008
CONTRACTOR: INTERNATIONAL BUSINESS MACHINES CORPORATION	CONTRACT NO. HR0011-07-9-0002

The Invention identified above is a "Subject Invention" under the Patent Rights Clause included in the above contract with:

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The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 14<sup>th</sup> day of February, 2008

INTERNATIONAL BUSINESS  
MACHINES CORPORATION  
CONTRACTOR

BY:   
CONTRACTOR'S OFFICIAL AND TITLE

John D Flynn  
IP Senior Counsel - STG  
IBM

BUSINESS ADDRESS  
11501 Burnet Road  
Austin, TX 78758

IBM Disclosure No.: AUS820071395  
IBM Docket No.: AUS920070723US1

CONFIRMATORY INSTRUMENT

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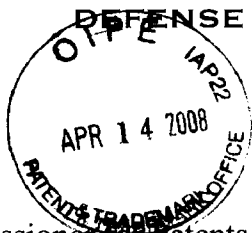
INTERNATIONAL BUSINESS  
MACHINES CORPORATION  
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IBM Disclosure No.: AUS820071395  
IBM Docket No.: AUS920070723US1



DEFENSE ADVANCED RESEARCH PROJECTS AGENCY

3701 NORTH FAIRFAX DRIVE  
ARLINGTON, VA 22203-1714

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

APR 07 2008

Attention: Register of Government Interest in Patents

Dear Sir:

Forwarded herewith is a cover sheet (as required by 37 CFR 3.31) and two copies of an instrument confirming the conveyance to the United States Government of certain rights in and to U.S. Patent Application Serial Number 12/024,219 filed on February 1, 2008.

This instrument is forwarded in accordance with Executive Order No. 9424 and 37 CFR Part 7 for recording in the Public portion of the Register of Government Interests.

After the enclosed license is recorded, please return the original to:

Defense Advanced Research Projects Agency  
3701 North Fairfax Drive  
Arlington, VA 22203-1714

Sincerely,

Kimberly B. Downey  
Program Support Specialist  
Office of the General Counsel