

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Sharathchandra U. Pankanti</td> <td>05/11/2008</td> </tr> <tr> <td>Akira Yanagawa</td> <td>11/07/2008</td> </tr> <tr> <td>Yun Zhai</td> <td>11/05/2008</td> </tr> </tbody> </table>		Name	Execution Date	Sharathchandra U. Pankanti	05/11/2008	Akira Yanagawa	11/07/2008	Yun Zhai	11/05/2008
Name	Execution Date								
Sharathchandra U. Pankanti	05/11/2008								
Akira Yanagawa	11/07/2008								
Yun Zhai	11/05/2008								
RECEIVING PARTY DATA									
Name:	International Business Machines Corporation								
Street Address:	New Orchard Road								
City:	Armonk								
State/Country:	NEW YORK								
Postal Code:	10504								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12261304</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12261304				
Property Type	Number								
Application Number:	12261304								
CORRESPONDENCE DATA									
Fax Number:	(518)456-7004								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	(518) 456-7084								
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Correspondent Name:	Keohane & D'Alessandro PLLC								
Address Line 1:	1881 Western Avenue								
Address Line 2:	Suite 180								
Address Line 4:	Albany, NEW YORK 12203								
ATTORNEY DOCKET NUMBER:	END920080416US1								
NAME OF SUBMITTER:	Darrell L. Pogue								

Total Attachments: 3
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PATENT ASSIGNMENT FORM

For and in consideration of good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor acknowledges his/her prior and ongoing obligation to sell, assign, and transfer, and agrees to sell, assign, and transfer the entire world wide right, title and interest for the United States and all foreign countries, in and to any and all inventions and improvements conceived during and within the scope of his/her employment, and further acknowledges that he/she has sold, assigned, and transferred, and hereby sells, assigns, and transfers, unto:

INTERNATIONAL BUSINESS MACHINES CORPORATION
Armonk, New York 10504

a corporation of New York, and IBM desires to acquire all right, title, and interest, in and to the certain inventions (identified below), applications, and any United States and foreign patents to be obtained therefore relating to:

DYNAMICALLY LEARNING ATTRIBUTES OF A POINT OF SALE OPERATOR

United States Patent

as set forth in United States Patent Application executed by each undersigned inventor on the date indicated by each inventor signature below, and further identified by **Attorney Docket Number END920080416US1**; executed concurrently herewith

for and to said United States Patent Application including any and all divisions or continuations thereof and in and to any and all Letters Patent of the United States and foreign patents and all rights of priority to be obtained therefore which may issue on any such application or for said invention therein disclosed, including any and all reissues or extensions thereof, to be held and enjoyed by, its successors, legal representatives and assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made;

Each undersigned inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all such Letters Patent to IBM, its successors and assigns, in accordance herewith;

Each undersigned inventor warrants and covenants that he/she has the full and unencumbered right to sell and assign the interests hereby sold and assigned and that he/she has not executed and will not execute any document or instrument in conflict herewith;

Each undersigned inventor further covenants and agrees that he/she, upon the request and at the expense of the IBM, will execute and deliver any papers, make all rightful oaths, testify in any legal proceeding relating to said inventions and improvements, communicate to the IBM all facts known to the undersigned relating to such inventions and improvements and the history thereof; and perform all other lawful acts deemed necessary or desirable by IBM, and its legal representatives, to secure, maintain, and enforce patent protection for such inventions and improvements and for vesting title to such inventions and improvements in the IBM, and in particular to perfect title to said above-identified certain inventions, and applications including divisions and continuations thereof, and any and all Letters Patent which may be granted therefore or thereon, including reissues, extensions, or counterparts;

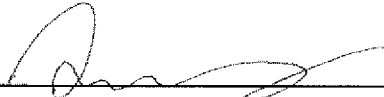
Each undersigned inventor hereby grants the IBM and the firm of the power to insert in this Assignment any further identification which may be necessary or desirable for recordation of this Assignment.

This assignment is governed by the substantive laws of the state of New York.

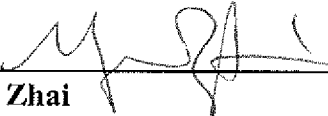
Executed by Inventor 5 of 7

Signature:  Date: 5/11/08
Sharathchandra U. Pankanti

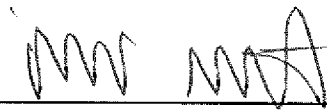
Executed by Inventor 6 of 7

Signature:  Date: 11/05/2008
Akira Yanagawa

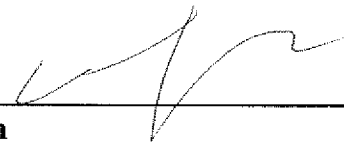
Executed by Inventor 7 of 7

Signature:  Date: 11/05/2008
Yun Zhai

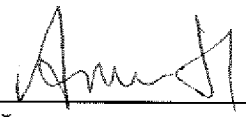
Executed by Inventor 1 of 7

Signature:  Date: 11/5/2008
Russell P. Bobbitt


Executed by Inventor 2 of 7

Signature:  Date: 11/05/08
Quanfu Fan

Executed by Inventor 3 of 7

Signature:  Date: 11/06/08
Arun Hampapur

Executed by Inventor 4 of 7

Signature:  Date: 11/11/08
Frederik C. M. Kjeldsen