

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3438161

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YING CHEN	02/01/2007
JEFFREY THOMAS KREULEN	02/02/2007
JAMES J. RHODES	02/02/2007
WILLIAM SCOTT SPANGLER	02/02/2007
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTERNATIONAL BUSINESS MACHINES CORPORATION
<b>Street Address:</b>	NEW ORCHARD ROAD
<b>City:</b>	ARMONK
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	10504
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	12132561
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	patents@shimokaji.com
<b>Correspondent Name:</b>	IBM - ARC (SHIMOKAJI & ASSOCIATES, P.C.)
<b>Address Line 1:</b>	8911 RESEARCH DRIVE
<b>Address Line 4:</b>	IRVINE, CALIFORNIA 92618
<b>ATTORNEY DOCKET NUMBER:</b>	ARC920060092US2(232-0106U
<b>NAME OF SUBMITTER:</b>	MICHAEL A. SHIMOKAJI
<b>SIGNATURE:</b>	/Michael A. Shimokaji/
<b>DATE SIGNED:</b>	07/14/2015
<b>Total Attachments: 2</b>	
source=ARC920060092US1_assignment_signed_232-0106#page1.tif	
source=ARC920060092US1_assignment_signed_232-0106#page2.tif	

## ASSIGNMENT

Whereas, we,

////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

- (1) Name: CHEN, Ying  
City/State of: San Jose, CA  
County/Country of: Santa Clara
- (2) Name: KREULEN, Jeffrey Thomas  
City/State of: San Jose, CA  
County/Country of: Santa Clara
- (3) Name: RHODES, James J.  
City/State of: Los Gatos, CA  
County/Country of: Santa Clara
- (4) Name: SPANGLER, William Scott  
City/State of: San Martin, CA  
County/Country of: Santa Clara
- (5) Name:  
City/State of:  
County/Country of:
- (6) Name:  
City/State of:  
County/Country of:

////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

have invented certain improvements in:

METHODOLOGIES AND ANALYTICS TOOLS FOR IDENTIFYING WHITE  
SPACE OPPORTUNITIES IN A GIVEN INDUSTRY

and executed a Declaration and Power of Attorney for a United States patent application therefor on:

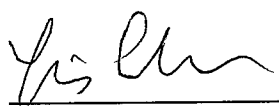
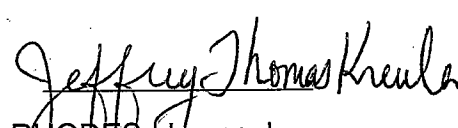

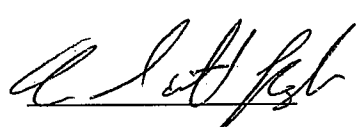
- (1) Date: 2/1/2007
- (2) Date: 2/2/2007
- (3) Date: 2/2/2007
- (4) Date: 2/2/2007
- (5) Date: \_\_\_\_\_
- (6) Date: \_\_\_\_\_

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, desires to acquire and own the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

## ASSIGNMENT

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to Assignees, their 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 inventions set forth in said application to Assignees, their successors and assigns; and I hereby agree that Assignees 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 Assignees.

### Execution by Assignors:

(1)	Name:	CHEN, Ying	City/State	San Jose, CA
	Signature:		Date:	<u>2/1/2007</u>
(2)	Name:	KREULEN, Jeffrey Thomas	City/State	San Jose, CA
	Signature:		Date:	<u>2/2/2007</u>
(3)	Name:	RHODES, James J.	City/State	Los Gatos, CA
	Signature:		Date:	<u>2/2/2007</u>
(4)	Name:	SPANGLER, William Scott	City/State	San Martin, CA
	Signature:		Date:	<u>2/2/2007</u>
(5)	Name:		City/State	
	Signature:	_____	Date:	_____
(6)	Name:		City/State	
	Signature:	_____	Date:	_____