

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4393673

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	NOTICE OF SUCCESSION OF AGENCY	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
BANK OF AMERICA, N.A., AS PRIOR AGENT		05/01/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	JPMORGAN CHASE BANK, N.A., AS SUCCESSOR AGENT	
<b>Street Address:</b>	4 CHASE METROTECH CENTER	
<b>Internal Address:</b>	MC: NY1-C413	
<b>City:</b>	BROOKLYN	
<b>State/Country:</b>	NEW YORK	
<b>Postal Code:</b>	11245-0001	
<b>PROPERTY NUMBERS Total: 18</b>		
<b>Property Type</b>	<b>Number</b>	
Patent Number:	6327587	
Patent Number:	6601058	
Patent Number:	6253236	
Patent Number:	6263348	
Patent Number:	6393438	
Patent Number:	6480834	
Patent Number:	6513048	
Patent Number:	6691125	
Patent Number:	6912539	
Patent Number:	7269583	
Patent Number:	7934221	
Patent Number:	8266591	
Patent Number:	8397208	
Patent Number:	7853508	
Patent Number:	7778899	
Patent Number:	8584082	
Patent Number:	8924931	
Patent Number:	9256425	

**CORRESPONDENCE DATA****Fax Number:** (800)914-4240*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.***Phone:** 614-280-3566**Email:** james.murray@wolterskluwer.com**Correspondent Name:** JAMES MURRAY**Address Line 1:** 4400 EASTON COMMONS WAY, SUITE 125**Address Line 2:** CT CORPORATION**Address Line 4:** COLUMBUS, OHIO 43219

<b>NAME OF SUBMITTER:</b>	ELAINE CARRERA
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<b>SIGNATURE:</b>	/Elaine Carrera/
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<b>DATE SIGNED:</b>	05/02/2017
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**Total Attachments: 6**

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RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Bank of America, N.A., as Prior Agent

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) May 1, 2017

- ☐ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☒ Other Notice of Succession of Agency

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

Name: JPMorgan Chase Bank, N.A., as Successor Agent

Internal Address: \_\_\_\_\_

Street Address: MC: NY1-C413, 4 Chase Metrotech Center

City: Brooklyn

State: NY

Country: USA Zip: 11245-0001

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

See Schedule A

B. Patent No.(s)

See Schedule A

Additional numbers attached? ☒ Yes ☐ No

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

Name: Elaine Carrera, Legal Assistant

Internal Address: \_\_\_\_\_

Street Address: c/o Cahill Gordon & Reindel LLP

80 Pine Street

City: New York

State: NY Zip: 10005

Phone Number: (212) 701-3365

Docket Number: \_\_\_\_\_

Email Address: ecarrera@cahill.com

**6. Total number of applications and patents involved: 18**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ \_\_\_\_\_**

- ☐ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:**

Elaine Carrera  
Signature

May 1, 2017

Date

Elaine Carrera  
Name of Person Signing

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

6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**NOTICE OF SUCCESSION OF AGENCY  
REEL/FRAME 039136/0241**

This NOTICE OF SUCCESSION OF AGENCY (this “Notice”), dated as of May 1, 2017 (the “Effective Date”), is executed by Bank of America, N.A., in its capacity as Administrative Agent under the Original Agreements (as defined below) (the “Prior Agent”), and JPMorgan Chase Bank, N.A., in its capacity as Administrative Agent under the Current Agreements (as defined below) (the “Successor Agent”).

WHEREAS, pursuant to that certain Credit Agreement, dated as of November 30, 2014, by and among MA FINANCECO., LLC, Prior Agent and certain other parties thereto (the “Original Credit Agreement”), the Prior Agent and certain grantor parties identified on the signature page hereto (the “Grantors”) entered into that certain Security Agreement, dated as of November 20, 2014 (the “Original Security Agreement”), and the Patent Security Agreement, dated as of July 12, 2016 (the “Patent Security Agreement”), pursuant to which the Grantors granted a security interest in and to certain collateral;

WHEREAS, the Patent Security Agreement was recorded with the United States Patent and Patent Office on July 12, 2016 at Reel/Frame 039136/0241, with respect to the patents identified on Schedule A attached hereto;

WHEREAS, the Original Credit Agreement and the Original Security Agreement were amended and restated, as of April 28, 2017 (as amended and restated, collectively, the “Current Agreements”), and in connection with the transactions under the Current Agreements, the Prior Agent, the Successor Agent, the Borrower and certain other parties have entered into that certain Agency Resignation, Appointment and Assignment Agreement, dated as of April 28, 2017 (the “Resignation Agreement”), whereby the Prior Agent resigned as Administrative Agent and is succeeded to and replaced by the Successor Agent as successor Administrative Agent;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. Defined Terms. All capitalized terms used, but not otherwise defined herein, shall have the respective meanings ascribed in or otherwise referenced in the Resignation Agreement.

2. Succession and Replacement of Agency. Pursuant to the terms and conditions set forth in the Resignation Agreement, the Prior Agent has ceased to be Administrative Agent under such capacity and is succeeded to and replaced by the Successor Agent as Administrative Agent under such capacity. Nothing herein shall be deemed to terminate, interrupt or impair the continuity of the security interest in the collateral originally granted to the Prior Agent under the Patent Security Agreement, which security interest is now succeeded by and transferred to the Successor Agent.

IN WITNESS WHEREOF, the parties have executed this Notice effective as of the Effective  
Date:

**BANK OF AMERICA, N.A.**

A handwritten signature in cursive script that reads "Anthea Del Bianco".

By: \_\_\_\_\_

Name: Anthea Del Bianco

Title: Vice President

[Signature Page to Notice of Change in Agency (Patent)]

**PATENT**  
**REEL: 042383 FRAME: 0834**

**JPMORGAN CHASE BANK, N.A.**

By: 

Name:

Richard Johansson

Title:

Vice President

**GRANTOR**

**SERENA SOFTWARE, INC.**

[Signature Page to Notice of Change in Agency (Patent)]

**PATENT**  
**REEL: 042383 FRAME: 0835**

## SCHEDULE A

Serena No.	Patent Title	App. No	Pat No.	Filing Date	Issue Date	Status	Ownership Status
P1002US1	Caching optimization with disk and/or memory cache management	09/166,441	6,327,587	10/5/1998	12/4/2001	Patented	Serena Software, Inc.
P1003US1	Data exploration system and method	09/166,556	6,601,058	10/5/1998	7/29/2003	Patented	Serena Software, Inc.
P1004US1	System and method for serving host computer files to one or more client computer systems	09/081,734	6,253,236	5/19/1998	6/26/2001	Patented	Serena Software, Inc.
P1005US1	Method and apparatus for identifying the existence of differences between two files	09/108,601	6,263,348	7/1/1998	7/17/2001	Patented	Serena Software, Inc.
P1005USC1	Method and apparatus for identifying the existence of differences between two files	09/882,910	6,393,438	6/15/2001	5/21/2002	Patented	Serena Software, Inc.
P1006US1	Method and apparatus for serving files from a mainframe to one or more clients	09/441,764	6,480,834	11/17/1999	11/12/2002	Patented	Serena Software, Inc.
P1007US1	Method and apparatus for access to files stored on a mainframe using a personal computer user interface	09/441,795	6,513,048	11/17/1999	1/28/2003	Patented	Serena Software, Inc.
P1009US1	Method and apparatus for converting files stored on a computer for use by another computer	09/442,018	6,691,125	11/17/1999	2/10/2004	Patented	Serena Software, Inc.
P1010US1	Method and apparatus for verifying converted database commands	10/112,883	6,912,539	3/29/2002	6/28/2005	Patented	Serena Software, Inc.
P1010USC1	System and method for verifying converted database commands	11/168,245	7,269,583	6/27/2005	9/11/2007	Patented	Serena Software, Inc.
P1018US1	Approach for proactive notification of contract changes in a software service	11/713,955	7,934,221	2/27/2007	4/26/2011	Patented	Serena Software, Inc.
P1020US1	Method and system for identifying suspect links between objects	11/849,073	8,266,591	8/31/2007	9/11/2012	Patented	Serena Software, Inc.
P1021US2	Method and system for baselining across multiple domains	11/849,081	8,397,208	8/31/2007	3/12/2013	Patented	Serena Software, Inc.
P1025US1	Method and system for object-oriented management of multi-dimensional data	10/613,534	7,853,508	7/3/2003	12/14/2010	Patented	Serena Software, Inc.

Serena No.	Patent Title	App. No	Pat No.	Filing Date	Issue Date	Status	Ownership Status
P1025US2	Method and system for object-oriented workflow management of multi-dimensional data	10/894,658	7,778,899	7/19/2004	8/17/2010	Patented	Serena Software, Inc.
P1029US1	System For Dynamic Discovery, Configuration, And Development Of Process-Bound Widgets	12/483,177	8,584,082	6/11/2009	11/12/2013	Patented	Serena Software, Inc.
P1023US1	Method and system for determining dependencies in a mainframe development environment	11/848,161	8,924,931	8/30/2007	12/30/2014	Patented	Serena Software, Inc.
P1028US1	Versioning and refactoring of business mashups in on-demand environments	12/207,384	9,256,425	9/9/2008	2/9/2016	Patented	Serena Software, Inc.