

TRADEMARK ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	INTELLECTUAL PROPERTY SECURITY AGREEMENT SUPPLEMENT		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
AGGREGATE KNOWLEDGE INC.		12/13/2013	CORPORATION: DELAWARE
RECEIVING PARTY DATA			
Name:	MORGAN STANLEY SENIOR FUNDING, INC.		
Street Address:	1 NEW YORK PLAZA, 41ST FLOOR		
City:	NEW YORK		
State/Country:	NEW YORK		
Postal Code:	10004		
Entity Type:	CORPORATION: DELAWARE		
PROPERTY NUMBERS Total: 3			
Property Type	Number	Word Mark	
Registration Number:	3548432	AGGREGATE KNOWLEDGE	
Registration Number:	3633321	AGKNOW	
Registration Number:	3544570	PIQUE	
CORRESPONDENCE DATA			
Fax Number:	6508385109		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>			
Phone:	650-838-3743		
Email:	jlik@shearman.com		
Correspondent Name:	Michael Jokic		
Address Line 1:	599 Lexington Avenue		
Address Line 2:	Shearman & Sterling LLP		
Address Line 4:	New York, NEW YORK 10022		
ATTORNEY DOCKET NUMBER:	35613/12287		
NAME OF SUBMITTER:	Michael Jokic		

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Signature:	/Michael Jokic/
Date:	01/08/2014
Total Attachments: 9 source=0 - IP Secuirty Agreement Supplement#page1.tif source=0 - IP Secuirty Agreement Supplement#page2.tif source=0 - IP Secuirty Agreement Supplement#page3.tif source=0 - IP Secuirty Agreement Supplement#page4.tif source=0 - IP Secuirty Agreement Supplement#page5.tif source=0 - IP Secuirty Agreement Supplement#page6.tif source=0 - IP Secuirty Agreement Supplement#page7.tif source=0 - IP Secuirty Agreement Supplement#page8.tif source=0 - IP Secuirty Agreement Supplement#page9.tif	

INTELLECTUAL PROPERTY SECURITY AGREEMENT SUPPLEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT SUPPLEMENT (this "*IP Security Agreement Supplement*") dated December 13, 2013, is made by the Person listed on the signature page hereof (the "*Grantor*") in favor of MORGAN STANLEY SENIOR FUNDING, INC. ("*MSSF*"), as collateral agent (the "*Collateral Agent*") for the Secured Parties (as defined in the Credit Agreement referred to below).

WHEREAS, Neustar, Inc, a Delaware corporation, has entered into a Credit Agreement dated as of January 22, 2013 (as amended, amended and restated, supplemented or otherwise modified from time to time, the "*Credit Agreement*"), with MSSF, as Administrative Agent, MSSF, as Collateral Agent, and the Lender Parties party thereto. Terms defined in the Credit Agreement and not otherwise defined herein are used herein as defined in the Credit Agreement.

WHEREAS, pursuant to the Credit Agreement, the Grantor and certain other Persons have executed and delivered that certain Security Agreement dated January 22, 2013 made by the Grantor and such other Persons to the Collateral Agent (as amended, amended and restated, supplemented or otherwise modified from time to time, the "*Security Agreement*") and that certain Intellectual Property Security Agreement dated January 22, 2013 (as amended, amended and restated, supplemented or otherwise modified from time to time, the "*IP Security Agreement*").

WHEREAS, under the terms of the Security Agreement, the Grantor has granted to the Collateral Agent, for the ratable benefit of the Secured Parties, a security interest in the Additional Collateral (as defined in Section 1 below) of the Grantor and has agreed as a condition thereof to execute this IP Security Agreement Supplement for recording with the U.S. Patent and Trademark Office, the United States Copyright Office and other governmental authorities.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor agrees as follows:

SECTION 1. Grant of Security. Each Grantor hereby grants to the Collateral Agent, for the ratable benefit of the Secured Parties, a security interest in all of such Grantor's right, title and interest in and to the following (the "*Additional Collateral*"):

- (i) the patents and patent applications set forth in Schedule A hereto (the "*Patents*");
- (ii) the trademark and service mark registrations and applications set forth in Schedule B hereto (provided that no security interest shall be granted in United States intent-to-use trademark applications to the extent that, and solely during the period in which, the grant of a security interest therein would impair the validity or enforceability of such intent-to-use trademark applications under applicable federal law), together with the goodwill symbolized thereby (the "*Trademarks*");

(iii) the copyright registrations and applications and exclusive copyright licenses set forth in Schedule C hereto (the “*Copyrights*”);

(iv) all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the foregoing, all rights in the foregoing provided by international treaties or conventions, all rights corresponding thereto throughout the world and all other rights of any kind whatsoever of such Grantor accruing thereunder or pertaining thereto;

(v) all any and all claims for damages and injunctive relief for past, present and future infringement, dilution, misappropriation, violation, misuse or breach with respect to any of the foregoing, with the right, but not the obligation, to sue for and collect, or otherwise recover, such damages; and

(vi) any and all proceeds of, collateral for, income, royalties and other payments now or hereafter due and payable with respect to, and supporting obligations relating to, any and all of the foregoing or arising from any of the foregoing.

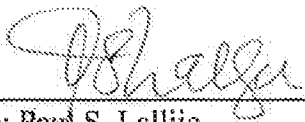
SECTION 2. Security for Obligations. The grant of a security interest in the Additional Collateral by the Grantor under this IP Security Agreement Supplement secures the payment of all Obligations of the Grantor now or hereafter existing under or in respect of the Loan Documents, whether direct or indirect, absolute or contingent, and whether for principal, reimbursement obligations, interest, premiums, penalties, fees, indemnifications, contract causes of action, costs, expenses or otherwise.

SECTION 3. Recordation. The Grantor authorizes and requests that the Register of Copyrights, the Commissioner for Patents and the Commissioner for Trademarks and any other applicable government officer to record this IP Security Agreement Supplement.

SECTION 4. Grants, Rights and Remedies. This IP Security Agreement Supplement has been entered into in conjunction with the provisions of the Security Agreement. The Grantor does hereby acknowledge and confirm that the grant of the security interest hereunder to, and the rights and remedies of, the Collateral Agent with respect to the Additional Collateral are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein.

SECTION 5. Governing Law. This IP Security Agreement Supplement shall be governed by, and construed in accordance with, the laws of the State of New York.

IN WITNESS WHEREOF, the Grantor has caused this IP Security Agreement Supplement to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

By 
Name: Paul S. Lalljie
Title: Senior Vice President and Chief Financial Officer

Address for Notices:
c/o NeuStar, Inc.
Attn: Paul Lalljie
21575 Ridgetop Circle
Sterling, VA 20166
Facsimile: (703) 738-7413
Email: Paul.Lalljie@neustar.biz

Schedule A

Patents

ASSIGNEE	COUNTRY	PATENT NO.	STATUS	FILING DATE	GRANT DATE	TITLE
Aggregate Knowledge Inc.	US	13/442,759	Pending	09-Apr-2012		MULTI-TOUCH ATTRIBUTION MODEL FOR VALUING IMPRESSIONS AND OTHER ONLINE ACTIVITIES
Aggregate Knowledge Inc.	US		converted	07-Apr-2011		MULTI-TOUCH ATTRIBUTION MODEL FOR VALUING IMPRESSIONS AND OTHER ONLINE ACTIVITIES
Aggregate Knowledge Inc.	US	13/465,891	Pending	07-May-2012		SYSTEM AND METHOD FOR COUNTING AND STORING EVENTS AS SCALAR QUANTITIES IN SKEWED COUNTING ENVIRONMENTS
Aggregate Knowledge Inc.	US		converted	06-May-2011		SYSTEM AND METHOD FOR COUNTING AND STORING EVENTS IN HIGHLY SKEWED COUNTING ENVIRONMENTS

Aggregate Knowledge Inc.	US	7,853,630	Granted	08-Jan-2008	14-Dec-2010	SYSTEM AND METHOD FOR THE DYNAMIC GENERATION OF CORRELATION SCORES BETWEEN ARBITRARY OBJECTS
Aggregate Knowledge Inc.	US	8,200,677	Granted	09-Nov-2010	12-Jun-2012	SYSTEM AND METHOD FOR THE DYNAMIC GENERATION OF CORRELATION SCORES BETWEEN ARBITRARY OBJECTS
Aggregate Knowledge Inc.	US	8,489,619	Granted	30-May-2012	16-Jul-2013	SYSTEM AND METHOD FOR THE DYNAMIC GENERATION OF CORRELATION SCORES BETWEEN ARBITRARY OBJECTS
Aggregate Knowledge Inc.	US		converted	01-Jun-2007		SYSTEM AND METHOD FOR THE DYNAMIC GENERATION OF CORRELATION SCORES BETWEEN ARBITRARY OBJECTS
Aggregate Knowledge Inc.	US	12/072454	Published	26-Feb-2008		SYSTEM AND METHOD FOR MAINTAINING METADATA CORRECTNESS
Aggregate Knowledge Inc.	US		converted	30-Jul-2007		SYSTEM AND METHOD FOR MAINTAINING METADATA

Aggregate Knowledge Inc.	US	8,032,714	Granted	18-Jun-2008	04-Oct-2011	METHODS AND SYSTEMS FOR CACHING DATA USING BEHAVIORAL EVENT CORRELATIONS
Aggregate Knowledge Inc.	US	13/235219	Allowed	16-Sep-2011		METHODS AND SYSTEMS FOR CACHING DATA USING BEHAVIORAL EVENT CORRELATIONS
Aggregate Knowledge Inc.	US		converted	28-Sep-2007		METHODS AND SYSTEMS FOR CACHING DATA USING BEHAVIORAL EVENT CORRELATIONS
Aggregate Knowledge Inc.	US	7,788,358	Granted	06-Mar-2006	31-Aug-2010	USING CROSS-SITE RELATIONSHIPS TO GENERATE RECOMMENDATIONS
Aggregate Knowledge Inc.	US	7,904,524	Granted	30-Jun-2008	08-Mar-2011	A CLIENT RECOMMENDATION MECHANISM
Aggregate Knowledge Inc.	US	13/802,497	Pending	13-Mar-2013		SYSTEM AND METHOD FOR HANDLING MULTI-PASS QUERIES
Aggregate Knowledge Inc.	US		converted	13-Mar-2012		CLOUD-BASED QUERY PROCESSING AND ANALYSIS PLATFORM
Aggregate Knowledge Inc.	US	13/802,571	Pending	13-Mar-2013		MANAGING MEMORY RESOURCES IN A NETWORKED ENVIRONMENT

Aggregate Knowledge Inc.	US	13/802,616	Pending	13-Mar-2013		SYSTEM FOR MANAGING MEMORY RESOURCES IN A NETWORKED ENVIRONMENT
Aggregate Knowledge Inc.	US	13/802,636	Pending	13-Mar-2013		INTEGRATING DATA FROM DISPARATE DATA SOURCES FOR QUERY PROCESSING
Aggregate Knowledge Inc.	US	13/802,660	Pending	13-Mar-2013		INTEGRATING DATA FROM DISPARATE DATA SOURCES FOR QUERY PROCESSING USING A HASH-BASED NODE INDEX
Aggregate Knowledge Inc.	US	5,245,337	Granted	29-May-1991	14-Sep-1993	DATA COMPRESSION WITH PIPELINE PROCESS HAVING SEPARATE MEMORIES
Aggregate Knowledge Inc.	US	5,966,709	Granted	26-Sep-1997	12-Oct-1999	METHOD OF OPTIMIZING AN N-GRAM MEMORY STRUCTURE
Aggregate Knowledge Inc.	US	5,983,232	Granted	28-Sep-1998	09-Nov-1999	VIRTUAL STRUCTURED INFORMATION SYSTEM
Aggregate Knowledge Inc.	US	6,018,734	Granted	28-Sep-1998	25-Jan-2000	MULTI-DIMENSIONAL PATTERN ANALYSIS

Schedule B

Trademarks

AGGREGATE KNOWLEDGE	registration number 3548432	9/12/2006	Aggregate Knowledge Inc.
AGKNOW	registration number 3633321	9/12/2006	Aggregate Knowledge Inc.
PIQUE	registration number 3544570	8/23/2007	Aggregate Knowledge Inc.

Schedule C

Copyrights

None.