PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6773696

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XAVIER RILEY	12/30/2015
ALAN BURYE	12/30/2015

RECEIVING PARTY DATA

Name:	NEUSTAR, INC.		
Street Address:	1906 RESTON METRO PLAZA		
Internal Address:	SUITE 500		
City:	RESTON		
State/Country:	VIRGINIA		
Postal Code:	20190		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17352699

CORRESPONDENCE DATA

Fax Number: (202)371-2540

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.

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Email: rhicks@sternekessler.com, lmiller@sternekessler.com **Correspondent Name:** STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

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ATTORNEY DOCKET NUMBER:	4380.1020002
NAME OF SUBMITTER:	ROSS G. HICKS
SIGNATURE:	/Ross G. Hicks, #56,374/
DATE SIGNED:	06/22/2021

Total Attachments: 4

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PATENT 506726880 REEL: 056613 FRAME: 0321

ASSIGNMENT

WHEREAS I/WE, Xavier Riley, Alan Burye; have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled "DATA AGGREGATION SYSTEM FOR ENABLING QUERY OPERATIONS ON RESTRICTED DATA THAT ORIGINATES FROM MULTIPLE INDEPENDENT MULTIPLE SOURCES", (Attorney Ref. No: NEUS.P022);

AND WHEREAS, **Neustar**, **Inc.** a Delaware corporation having an address of **505 Howard Street**, **5**th **Floor**, **San Francisco**, **CA 94105**, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, I/we do hereby sell, assign, transfer and set over unto **Neustar**, **Inc.**, its legal representatives, successors, and assigns ("Assignee"), the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention and claim priority to said application;

UPON SAID CONSIDERATIONS, I/we hereby agree with the said Assignee that I/we will not execute any writing or do any act whatsoever conflicting with these presents, and that I/we will, at any time upon request, without further or additional consideration but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said

PATENT REEL: 056613 FRAME: 0322 invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and Assignee;

AND I/WE REQUEST the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Assignee, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

12/30/15	J. R. J.	
Date	Xavier Riley	
Date	Alan Burye	

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ASSIGNMENT

WHEREAS I/WE, Xavier Riley, Alan Burye; have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled "DATA AGGREGATION SYSTEM FOR ENABLING QUERY OPERATIONS ON RESTRICTED DATA THAT ORIGINATES FROM MULTIPLE INDEPENDENT MULTIPLE SOURCES", (Attorney Ref. No: NEUS.P022);

AND WHEREAS, **Neustar**, **Inc.** a Delaware corporation having an address of **505 Howard Street**, **5**th **Floor**, **San Francisco**, **CA 94105**, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, I/we do hereby sell, assign, transfer and set over unto **Neustar**, **Inc.**, its legal representatives, successors, and assigns ("Assignee"), the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention and claim priority to said application;

UPON SAID CONSIDERATIONS, I/we hereby agree with the said Assignee that I/we will not execute any writing or do any act whatsoever conflicting with these presents, and that I/we will, at any time upon request, without further or additional consideration but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said

PATENT REEL: 056613 FRAME: 0324 invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents. By giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and Assignee.

AND I/WE REQUEST the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Assignee, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date	Xavier Riley	

Date	Alan Rime	

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