504392501 06/01/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4439198

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
MU SIGMA, INC.	05/31/2017

RECEIVING PARTY DATA

Name:	BNY MELLON CORPORATE TRUSTEE SERVICES LIMITED	
Street Address:	ONE CANADA SQUARE	
Internal Address:	TRUSTEE ADMINISTRATION MANAGER (MU SIGMA, INC./PROJECT LOGIC)	
City:	LONDON	
State/Country:	UNITED KINGDOM	
Postal Code:	E14 5AL	

PROPERTY NUMBERS Total: 11

Property Type	Number
Patent Number:	9208462
Patent Number:	9286380
Application Number:	13852835
Application Number:	14150735
Application Number:	14828390
Application Number:	14578254
Application Number:	14579656
Application Number:	14576061
Application Number:	14995259
Application Number:	15260589
Application Number:	15370048

CORRESPONDENCE DATA

Fax Number: (302)636-5454

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: 202-408-3121 X62348

Email: jean.paterson@cscglobal.com

Correspondent Name: CSC

Address Line 1: 1090 VERMONT AVENUE NW, SUITE 430

504392501 REEL: 042562 FRAME: 0047

PATENT

Address Line 4: WAS	HINGTON, D.C. 20005	
ATTORNEY DOCKET NUMBER:	665732-5	
NAME OF SUBMITTER:	JEAN PATERSON	
SIGNATURE:	/jep/	
DATE SIGNED:	06/01/2017	
Total Attachments: 8		
source=6-1-17 Mu Sigma-PT#page1.tif		
source=6-1-17 Mu Sigma-PT#page2.tif		
source=6-1-17 Mu Sigma-PT#page3.tif		
source=6-1-17 Mu Sigma-PT#page4.tif		
source=6-1-17 Mu Sigma-PT#page5.tif		
source=6-1-17 Mu Sigma-PT#page6.tif		
source=6-1-17 Mu Sigma-PT#page7.tif		
source=6-1-17 Mu Sigma-PT#page8.tif		

INTELLECTUAL PROPERTY SECURITY AGREEMENT

INTELLECTUAL PROPERTY SECURITY AGREEMENT, dated as of May 31, 2017, between MU SIGMA, INC., a Delaware corporation (the "Grantor") and BNY Mellon Corporate Trustee Services Limited, as security agent for the Secured Parties (in such capacity, the "Security Agent").

RECITALS

- (A) The Grantor, the financial institutions party thereto as lenders (each individually referred to as a "Lender" and collectively as "Lenders"), The Bank of New York Mellon, Singapore Branch, as agent for the Lenders (in such capacity, the "Agent"), the Security Agent and the other parties thereto are parties to a Facility Agreement dated as of [●] (as amended, restated, supplemented or otherwise modified from time to time in accordance with its terms, the "Facility Agreement")).
- (B) The Grantor is party to a Pledge and Security Agreement, dated as of the date hereof, in favor of the Security Agent (as it may from time to time be amended, restated, supplemented or otherwise modified in accordance with its terms, the "Pledge and Security Agreement"), pursuant to which the Grantor is required to execute and deliver this Agreement.
- (C) In consideration of the conditions and agreements set forth in the Facility Agreement, the Pledge and Security Agreement and this Agreement, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto hereby agree as follows:

Section 1 Defined Terms

Unless otherwise defined herein, terms defined in the Pledge and Security Agreement and used herein have the meaning given to them in the Pledge and Security Agreement.

Section 2 Grant of Security Interest in Intellectual Property Collateral

As security for the prompt and complete payment and performance in full when due (whether at stated maturity, by required prepayment, declaration, acceleration or otherwise) of all Obligations (as defined in the Facility Agreement), the Grantor hereby pledges, assigns, transfers and grants to the Security Agent, for its benefit and for the benefit of the Secured Parties, a continuing security interest in and Lien on all of its right, title and interest in, to and under all Intellectual Property Collateral (as defined below), whether now owned or hereafter acquired or existing and wherever located.

"Intellectual Property Collateral" means the Grantor's right, title and interest in, to and under all of the following property (other than any Excluded Property):

- (a) all Copyrights owned by or licensed to the Grantor;
- (b) all Patents owned by or licensed to the Grantor, including those referred to on Schedule II hereto;
- (c) all Trademarks owned by or licensed to the Grantor, including those referred to on Schedule III hereto, together with all goodwill of the business connected with the use of, and symbolized by, each such Trademark;
- (d) all Intellectual Property Licenses to which the Grantor is a party;
- (e) all reissues, continuations or extensions of the foregoing; and
- (f) all Proceeds of the foregoing, including any claim by the Grantor against third parties for past, present or future (i) infringement or, if applicable, dilution of any owned or licensed Copyright, Trademark or Patent, or (ii) injury to the goodwill associated with any owned or licensed Trademark.

Section 3 Certain Exclusions

Notwithstanding anything herein to the contrary, in no event will the Intellectual Property Collateral include nor will the Grantor be deemed to have granted a Security Interest in any of its right, title or interest in any Excluded Property.

Section 4 Pledge and Security Agreement

The security interest granted pursuant to this Agreement is granted in conjunction with the security interest granted to the Security Agent pursuant to the Pledge and Security Agreement, and the Grantor hereby acknowledges and affirms that the rights and remedies of the Security Agent with respect to the security interest granted by them in the Intellectual Property Collateral made and granted hereby are more fully set forth in the Pledge and Security Agreement. To the extent applicable for purposes of this Agreement, the terms and provisions of the Pledge and Security Agreement are incorporated by reference herein. To the extent there is any conflict between the terms of this Agreement and the Pledge and Security Agreement, the Pledge and Security Agreement shall control.

Section 5 Governing Law

THIS AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER ARE GOVERNED BY, AND WILL BE CONSTRUED AND ENFORCED IN ACCORDANCE WITH, THE INTERNAL LAWS OF THE STATE OF NEW YORK (INCLUDING SECTION 5-1401 OF THE GENERAL OBLIGATIONS LAW OF THE STATE OF NEW YORK).

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, the Grantor has caused this Intellectual Property Security Agreement to be duly executed and delivered by their respective officers or representatives thereunto duly authorized as of the date first written above.

MU SIGMA, INC.,

as Grantor

Bv:

Name: Krishna Rupanagunta Title: Geography Head

[US IP Security Agreement]

ACCEPTED AND AGREED:

BNY Mellon Corporate Trustee Services Limited,

as Security Agent/

Ву:

Name:

Title:

Paul Cattermole

Vice President

[US IP Security Agreement]

SCHEDULE II TO THE INTELLECTUAL PROPERTY SECURITY AGREEMENT

PATENT REGISTRATIONS

Patents

Grantor	Title	Reg. No. or Appln. No.	Date
MuSigma, Inc.	System and method for generating a marketing mix solution	13/543,631/ 9,208,462	06-July-2012/ 08-Dec- 2015
MuSigma, Inc.	Social media data analysis system and method	13/748,465/ 9,286,380	23-Jan-2013/15-Mar- 2016
MuSigma, Inc.	Data solutions system (MuRX)	13/852,835	28-Mar-2013
MuSigma, Inc.	Data management system and tool	14/150,735	08-Jan-2014
MuSigma, Inc.	Text Mining system and tool	14/828,390	17-Aug-2015
MuSigma, Inc.	Event Processing systems and methods	14/578,254	19-Dec-2014
MuSigma, Inc.	Systems and Methods for Creating and Evaluating Experiments (mux2)	14/579,656	22-Dec-2014
MuSigma, Inc.	muUniverse (Business Problem Networking System and Tool)	14/576,061	18-Dec-2014
MuSigma, Inc.	Analytics system and method	14/995,259	14-Jan-2016
MuSigma, Inc.	muRX (Guided analytics system)	15/260,589	09-Sep-2016
MuSigma, Inc.	muVx(model validation system and method)	15/370,048	06-Dec-2016

SCHEDULE III TO THE INTELLECTUAL PROPERTY SECURITY AGREEMENT

TRADEMARK REGISTRATIONS

Trademarks

Grantor	Title	Reg. No. or Appln. No.	Date
Mu Sigma, Inc.	DIPP	4253347	4-Dec-12
Mu Sigma, Inc.	MuSigma logo	4562236	8-Jul-14
Mu Sigma, Inc.	MuPhoria logo	4562241, 4550044	17-Jun-14
Mu Sigma, Inc.	muRx word	4550092,	17-Jun-14
Mu Sigma, Inc.	muFlow word	4550093	17-Jun-14
Mu Sigma, Inc.	muPDNA word	4550094	17-Jun-14
Mu Sigma, Inc.	muMix word	4550095	17-Jun-14
Mu Sigma, Inc.	muStream word	4550096	17-Jun-14
Mu Sigma, Inc.	muBuzz word	4550097	17-Jun-14
Mu Sigma, Inc.	muXo word	4500549	25-Mar-14
Mu Sigma, Inc.	muText word	4504164	1-Apr-2014
Mu Sigma, Inc.	muHPC word	4504165	1-Apr-2014
Mu Sigma, Inc.	muESP word	4504166	1-Apr-2014
Mu Sigma, Inc.	muKyun word	4500564	25-Mar-14
Mu Sigma, Inc.	muFIRE word	4500565	25-Mar-14
Mu Sigma, Inc.	muSense word	4500567	25-Mar-14
Mu Sigma, Inc.	Mu Sigma Trademark	86062162	12-Aug-13
Mu Sigma, Inc.	muViewTrademark	86135430	29-Aug-13
Mu Sigma, Inc.	muUniverse-word	86232819	24-Mar-14
Mu Sigma, Inc.	muUniverse-logo	86232779	24-Mar-14
Mu Sigma, Inc.	muAoPS-logo	86300598	25-Apr-14
Mu Sigma, Inc.	muAoPS-word	86300575	25-Apr-14
Mu Sigma, Inc.	mux2	86345011	13-Jun-14
Mu Sigma, Inc.	muCheck logo	86345047	13-Jun-14
Mu Sigma, Inc.	muCheck word	86345028	13-Jun-14
Mu Sigma, Inc.	muFusion-word	86583343	22-Jan-15
Mu Sigma, Inc.	muFusion-social- word	86583355	22-Jan-15

Mu Sigma, Inc.	muFusion-enterprise- word	86583362	22-Jan-15
Mu Sigma, Inc.	muFusion-logo	86583369	22-Jan-15
Mu Sigma, Inc.	muFusion-social-logo	86583379	24-Jan-15
Mu Sigma, Inc.	muFusion-enterprise- logo	86583385	24-Jan-15
Mu Sigma, Inc.	muApt-word	86946022	18-Mar-16
Mu Sigma, Inc.	muApt-word	86729064	18-Aug-15
Mu Sigma, Inc.	muApt-logo-with tagline	86946032	18-Mar-16
Mu Sigma, Inc.	muApt-logo-with tagline	86729122	18-Aug-15
Mu Sigma, Inc.	muApt-logo- without tagline	86946012	18-Mar-16
Mu Sigma, Inc.	muApt-logo- without tagline	86729098	18-Aug-15
Mu Sigma, Inc.	Word mark- Art of Problem Solving System	86684558	07-Jul-15
Mu Sigma, Inc.	Logo - Chart	86684578	07-Jul-15
Mu Sigma, Inc.	muVx (word)	86790950	16-Oct-15
Mu Sigma, Inc.	muOBI (word)	87155875	30-Aug-16
Mu Sigma, Inc.	muIDA (word)	87155919	30-Aug-16
Mu Sigma, Inc.	muDSC (word)	87155943	30-Aug-16
Mu Sigma, Inc.	muVCL(word)	87155930	30-Aug-16
Mu Sigma, Inc.	Meta-software (word)	87364097	08-Mar-17
Mu Sigma, Inc.	Service-as-a- Software (word)	87364108	08-Mar-17
Mu Sigma, Inc.	muRecommend (word)	87364113	08-Mar-17
Mu Sigma, Inc.	muDetect (word)	87364122	08-Mar-17
Mu Sigma, Inc.	muForecast (word)	87364127	08-Mar-17
Mu Sigma, Inc.	muSegment (word)	87364133	08-Mar-17
Mu Sigma, Inc.	muClassify (word)	87364143	08-Mar-17
Mu Sigma, Inc.	Musigma Meta-		

	software		
Mu Sigma, Inc.	Musigma Service-as- a Software	87364157	08-Mar-17

RECORDED: 06/01/2017