

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT7199843

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
CIBC BANK USA	02/25/2022

RECEIVING PARTY DATA

Name:	NARRATIVE SCIENCE INC
Street Address:	1 N DEARBORN ST
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60602

PROPERTY NUMBERS Total: 60

Property Type	Number
Patent Number:	8355903
Patent Number:	8374848
Patent Number:	8688434
Patent Number:	8843363
Patent Number:	9251134
Patent Number:	9396168
Patent Number:	9720884
Patent Number:	9990337
Patent Number:	8630844
Patent Number:	9697178
Patent Number:	8775161
Patent Number:	8892417
Patent Number:	9208147
Patent Number:	10185477
Patent Number:	9720899
Patent Number:	9697492
Patent Number:	9576009
Patent Number:	9697197
Patent Number:	8886520
Patent Number:	9977773

PATENT

Property Type	Number
Application Number:	15996715
Application Number:	13464675
Application Number:	14961018
Application Number:	16253556
Application Number:	15977141
Application Number:	15253385
Application Number:	15414027
Application Number:	15414089
Application Number:	16235649
Application Number:	16235696
Application Number:	15666151
Application Number:	15666168
Application Number:	15666192
Application Number:	15895800
Application Number:	15897331
Application Number:	15897350
Application Number:	15897359
Application Number:	15897364
Application Number:	15897373
Application Number:	15897381
Application Number:	16047800
Application Number:	16047837
Application Number:	16183230
Application Number:	16183270
Application Number:	16233746
Application Number:	16233776
Application Number:	16235594
Application Number:	16235636
Application Number:	16235662
Application Number:	16235705
Application Number:	16277000
Application Number:	16277003
Application Number:	16277004
Application Number:	16277006
Application Number:	16277008
Application Number:	16444649
Application Number:	16444689
Application Number:	16444718

Property Type	Number
Application Number:	16444748
Application Number:	62797787

CORRESPONDENCE DATA

Fax Number:

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.

Email: collateralreleaserequests@cibc.com

Correspondent Name: CIBC BANK USA

Address Line 1: 120 S LASALLE ST

Address Line 4: CHICAGO, ILLINOIS 60603

NAME OF SUBMITTER: LISETTE ALAMO

SIGNATURE: /Lisette Alamo/

DATE SIGNED: 03/01/2022

Total Attachments: 11

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PATENT SECURITY AGREEMENT

THIS PATENT SECURITY AGREEMENT (this "Agreement"), dated as August 16, 2019, is made by NARRATIVE SCIENCE INC., a Delaware corporation (the "Grantor"), in favor of CIBC BANK USA (the "Lender").

RECITALS

WHEREAS, Grantor has entered into a Loan and Security Agreement dated as of even date herewith (as amended, restated, supplemented or otherwise modified from time to time, the "Loan Agreement") with Lender, pursuant to which Lender has agreed to make certain loans to Grantor and pursuant to which Grantor has granted to Lender a security interest in substantially all the assets of Grantor, including all right, title and interest of Grantor in, to and under all now owned and hereafter acquired Patent Collateral (as defined below), to secure the payment of all amounts owing by the Loan Parties under the Loan Agreement and the other Loan Documents (as defined in the Loan Agreement).

NOW, THEREFORE, in consideration of the mutual agreements set forth herein and in the Loan Agreement, Grantor does hereby grant to Lender a continuing security interest in all of Grantor's right, title and interest in, to and under the following, whether presently existing or hereafter created or acquired:

- (1) each patent and patent application, including, without limitation, each patent and patent application referred to in Schedule 1 annexed hereto, together with any reissues, continuations or extensions thereof and all goodwill associated therewith; and
- (2) all products and proceeds of the foregoing, including, without limitation, any claim by Grantor against third parties for past, present or future infringement of any patent, including, without limitation, any patent referred to in Schedule 1 annexed hereto, any patent issued pursuant to a patent application referred to in Schedule 1 and any patent licensed under any patent license listed on Schedule 1 annexed hereto (items 1 and 2 being herein collectively referred to as the "Patent Collateral").

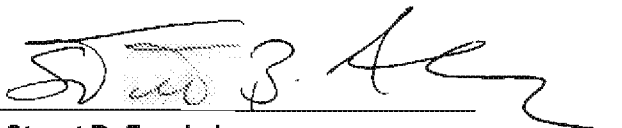
This security interest is granted in conjunction with the security interests granted to Lender pursuant to the Loan Agreement and is subject to limitations set forth therein. Each of Grantor and Lender hereby acknowledges and affirms that the rights and remedies of Lender with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Loan Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. Capitalized terms used but not defined herein have the respective meanings ascribed thereto in the Loan Agreement.

This Agreement may be executed in any number of counterparts and by different parties in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute one and the same agreement. Receipt of an executed signature page to this Agreement by facsimile or other electronic transmission shall constitute effective delivery thereof. Electronic records of executed Loan Documents maintained by Lender shall be deemed to be originals.

IN WITNESS WHEREOF, Grantor has caused this Patent Security Agreement to be duly executed by its duly authorized officer thereunto as of the date first set forth above.

GRANTOR:

NARRATIVE SCIENCE INC.

By: 
Name: **Stuart B. Frankel**
Title: **CEO**

Acknowledged and agreed to:

LENDER:

CIBC BANK USA

By: _____
Name:
Title:

IN WITNESS WHEREOF, Grantor has caused this Patent Security Agreement to be duly executed by its duly authorized officer thereunto as of the date first set forth above.

GRANTOR:

NARRATIVE SCIENCE INC.

By: _____

Name:

Title:

Acknowledged and agreed to:

LENDER:

CIBC BANK USA

By:  _____

Name: ANDREW J. KIRK

Title: MANAGING DIRECTOR

SCHEDULE 1
to
PATENT SECURITY AGREEMENT

Patents and Patent Applications

ISSUED PATENTS:

Name	Number	Jurisdiction (if foreign)	Date Filed
System and Method for Using Data and Angles to Automatically Generate a Narrative Story	8,355,903		May 13, 2010
System and Method for Using Data and Derived Features to Automatically Generate a Narrative Story	8,374,848		May 13, 2010
System and Method for Using Data to Automatically Generate a Narrative Story	8,688,434		May 13, 2010
System and Method for Using Data and Derived Features to Automatically Generate a Narrative Story	8,843,363		January 10, 2013
System and Method for Using Data and Angles to Automatically Generate a Narrative Story	9,251,134		January 10, 2013
System and Method for Using Data and Angles to Automatically Generate a Narrative Story	9,396,168		February 1, 2016
System and Method for Using Data and Angles to Automatically Generate a Narrative Story	9,720,884		July 15, 2016
System and Method for Using Data and Angles to Automatically Generate a Narrative Story	9,990,337		July 31, 2017

Name	Number	Jurisdiction (if foreign)	Date Filed
Configurable and Portable Method, Apparatus, and Computer Program Product for Generating Narratives Using Content Blocks, Angles and Blueprint Sets	8,630,844		May 4, 2012
Use of Tools and Abstraction in a Configurable and Portable System for Generating Narratives	9,697,178		May 4, 2012
Method and Apparatus for Triggering the Automatic Generation of Narratives	8,775,161		July 19, 2011
Method and Apparatus for Triggering the Automatic Generation of Narratives	8,892,417		July 19, 2011
Method and Apparatus for Triggering the Automatic Generation of Narratives	8,886,520		July 19, 2011
Method and Apparatus for Triggering the Automatic Generation of Narratives	9,208,147		November 26, 2013
Method and System for Configuring Automatic Generation of Narratives from Data	10,185,477		March 14, 2014
Automatic Generation of Narratives from Data Using Communication Goals and Narrative Analytics	9,720,899		October 22, 2014
Automatic Generation of Narratives from Data Using Communication Goals and Narrative Analytics	9,697,492		December 15, 2014
Automatic Generation of Narratives from Data Using Communication Goals and Narrative Analytics	9,576,009		February 20, 2015
Automatic Generation of Narratives from Data Using Communication Goals and Narrative Analytics	9,697,197		February 20, 2015

Name	Number	Jurisdiction (if foreign)	Date Filed
Automatic Generation of Narratives from Data Using Communication Goals and Narrative Analytics	9,977,773		December 15, 2014

PATENT APPLICATIONS:

Description	Application Number	Application Date
System and Method for Using Data and Angles to Automatically Generate a Narrative Story	15/996,715	June 4, 2018
Configurable and Portable System for Generating Narratives	13/464,675	May 4, 2012
Method and Apparatus for Triggering the Automatic Generation of Narratives	14/961,018	December 7, 2015
Method and System for Configuring Automatic Generation of Narratives	16/253,556	January 22, 2019
Automatic Generation of Narratives from Data Using Communication Goals and Narrative Analytics	15/977,141	May 11, 2018
Applied Artificial Intelligence Technology for Using Narrative Analytics to Automatically Generate Narratives from Visualization Data	15/253,385	August 31, 2016
Applied Artificial Intelligence Technology for Using Narrative Analytics to Automatically Generate Narratives from Bar Charts	15/414,027	January 24, 2017
Applied Artificial Intelligence Technology for Using Narrative Analytics to Automatically Generate Narratives from Line Charts	15/414,089	January 24, 2017

Description	Application Number	Application Date
Applied Artificial Intelligence Technology for Using Narrative Analytics to Automatically Generate Narratives from Multiple Visualizations	16/235,649	December 28, 2018
Applied Artificial Intelligence Technology for Using Narrative Analytics to Interactively Generate Narratives from Visualization Data	16/235,696	December 28, 2018
Applied Artificial Intelligence Technology for Interactively Using Narrative Analytics to Focus and Control Visualizations of Data	15/666,151	August 1, 2017
Applied Artificial Intelligence Technology for Evaluating Drivers of Data Presented in Visualizations	15/666,168	August 1, 2017
Applied Artificial Intelligence Technology for Selective Control over Narrative Generation from Visualizations of Data	15/666,192	August 1, 2017
Interactive and Conversational Data Exploration	15/895,800	February 13, 2018
Applied Artificial Intelligence Technology for Performing Natural Language Generation (NLG) Using Composable Communication Goals and Ontologies to Generate Narrative Stories	15/897,331	February 15, 2018
Applied Artificial Intelligence Technology for Determining and Mapping Data Requirements for Narrative Stories to Support Natural Language Generation (NLG) Using Composable Communication Goals	15/897,350	February 15, 2018
Applied Artificial Intelligence Technology for Story Outline Formation Using Composable Communication Goals to Support Natural Language Generation (NLG)	15/897,359	February 15, 2018

Description	Application Number	Application Date
Applied Artificial Intelligence Technology for Runtime Computation of Story Outlines to Support Natural Language Generation (NLG)	15/897,364	February 15, 2018
Applied Artificial Intelligence Technology for Ontology Building to Support Natural Language Generation (NLG) Using Composable Communication Goals	15/897,373	February 15, 2018
Applied Artificial Intelligence Technology for Interactive Story Editing to Support Natural Language Generation (NLG)	15/897,381	February 15, 2018
Applied Artificial Intelligence Technology for Narrative Generation Based on Analysis Communication Goals	16/047,800	July 27, 2018
Applied Artificial Intelligence Technology for Narrative Generation Based on a Conditional Outcome Framework	16/047,837	July 27, 2018
Applied Artificial Intelligence Technology for Narrative Generation Based on Smart Attributes	16/183,230	November 7, 2018
Applied Artificial Intelligence Technology for Narrative Generation Based on Explanation Communication Goals	16/183,270	November 7, 2018
Context Saliency-Based Deictic Parser for Natural Language Generation	16/233,746	December 27, 2018
Context Saliency-Based Deictic Parser for Natural Language Processing	16/233,776	December 27, 2018
Applied Artificial Intelligence Technology for Narrative Generation Using an Invocable Analysis Service	16/235,594	December 28, 2018
Applied Artificial Intelligence Technology for Narrative Generation Using an Invocable Analysis Service with Analysis Libraries	16/235,636	December 28, 2018

Description	Application Number	Application Date
Applied Artificial Intelligence Technology for Narrative Generation Using an Invocable Analysis Service and Data Re-Organization	16/235,662	December 28, 2018
Applied Artificial Intelligence Technology for Narrative Generation Using an Invocable Analysis Service and Configuration-Driven Analytics	16/235,705	December 28, 2018
Applied Artificial Intelligence Technology for Conversational Inferencing	16/277,000	February 15, 2019
Applied Artificial Intelligence Technology for Conversational Inferencing and Interactive Natural Language Generation	16/277,003	February 15, 2019
Applied Artificial Intelligence Technology for Contextualizing Words to a Knowledge Base Using Natural Language Processing	16/277,004	February 15, 2019
Applied Artificial Intelligence Technology for Conversational Inferencing Using Named Entity Reduction	16/277,006	February 15, 2019
Applied Artificial Intelligence Technology for Building a Knowledge Base Using Natural Language Processing	16/277,008	February 15, 2019
Applied Artificial Intelligence Technology for Using Natural Language Processing and Concept Expression Templates to Train a Natural Language Generation System	16/444,649	June 18, 2019
Applied Artificial Intelligence Technology for Using Natural Language Processing to Train a Natural Language Generation System with Respect to Numeric Style Features	16/444,689	June 18, 2019
Applied Artificial Intelligence Technology for Using Natural Language Processing to Train a Natural Language Generation System with Respect to Date and Number Textual Features	16/444,718	June 18, 2019

Schedule 1 to Patent Security Agreement

PATENT
REEL: 059640 FRAME: 0020

Description	Application Number	Application Date
Applied Artificial Intelligence Technology for Using Natural Language Processing to Train a Natural Language Generation System	16/444,748	June 18, 2019
Applied Artificial Intelligence Technology for Natural Language Understanding	62/797,787	January 28, 2019

Schedule 1 to Patent Security Agreement