

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT7337562

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	LOOKER DATA SCIENCES, INC.	09/02/2020
RECEIVING PARTY DATA		
Name:	GOOGLE LLC	
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PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	17663955	
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ATTORNEY DOCKET NUMBER:	231441-508978	
NAME OF SUBMITTER:	BRETT A. KRUEGER	
SIGNATURE:	/Brett A. Krueger/	
DATE SIGNED:	05/18/2022	
Total Attachments: 6		
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CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS

This CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS (this "Assignment") is made and entered into as of September 2, 2020, by and between Looker Data Sciences, Inc., a Delaware Corporation ("Assignor"), and Google LLC, a Delaware Limited Liability Corporation ("Assignee").

WHEREAS, Assignee and Assignor or its affiliate have entered into that certain agreement dated as of June 5, 2019 (the "Agreement"), pursuant to which Assignor has agreed to assign, transfer, and convey to Assignee, and Assignee has agreed to accept all of Assignor's right, title, and interest in and to the Assigned Patents.

"Assigned Patents" means, any and all patents and patent applications: (a) listed on Exhibit A ("Listed Patents"); (b) to which any of the Listed Patents is or reasonably should be terminally disclaimed or for which any of the foregoing forms a basis for a terminal disclaimer; (c) to which any of the foregoing in (a) and (b) claims or is entitled to claim priority, including any parent application, provisional or other priority document; (d) that are national (of any country of origin), international or multinational counterparts to any of the foregoing in (a) through (c); or (e) that claim priority to or have common priority with any of the foregoing in (a) through (d), including all continuing, divisional and continuation-in-part applications of any of the foregoing; or (f) that issue anywhere in the world from any of the patent applications in any of the foregoing (a) through (e); or (g) that arise out of any corrections, substitutions, reissues, extensions, renewals or re-examinations of any of the foregoing (a) through (f).

NOW, THEREFORE, for good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which are hereby acknowledged, Assignor and Assignee agree as follows:

Assignor hereby irrevocably assigns, transfers, and conveys to Assignee all right, title, and interest in and to:

- (a) the Assigned Patents;
- (b) all inventions, invention disclosures, and discoveries described in any of the Assigned Patents;
- (c) all rights of priority related to the Assigned Patents and rights to apply in any or all countries of the world for patents claiming any inventions, invention disclosures, and discoveries described in any of the Assigned Patents; and
- (d) all claims, causes of action (whether known or unknown, accrued or unaccrued, or currently pending, filed, or otherwise), provisional rights, and other enforcement rights under, or on account of, any of the Assigned Patents, including all (i) rights to pursue damages, injunctive relief, and any other remedies of any kind (including based on provisional rights) for past, current, and future infringement, and (ii) rights to collect royalties or other payments under or on account of any of the Assigned Patents.

Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention that may be granted upon any of the Assigned Patents in the name of Assignee, as the assignee to the entire interest therein.

This Assignment will be binding upon and will inure to the benefit of the parties and their respective successors and assigns.

This Assignment will be governed by, and construed in accordance with, the laws of the United States in respect to patent issues and in all other respects by the laws of the State of California, without reference to its choice of law principles to the contrary.

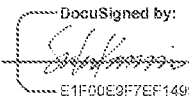
This Assignment may be executed in counterparts, each of which will be deemed an original, and all of which together constitute one and the same instrument.

[Signatures to Follow]

IN WITNESS WHEREOF, Assignor has caused this Assignment to be executed by its duly authorized representative as of this the date first set forth above.

ASSIGNOR:

LOOKER DATA SCIENCES, INC.

By:  DocuSigned by:
E1FD0E3F7EF1499...

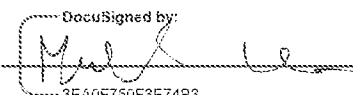
Name: Svilen I. Karaivanov

Title: Director and Authorized Signatory of
Looker Data Sciences, Inc.

IN WITNESS WHEREOF, Assignee has caused this Assignment to be executed by its duly authorized representative as of the date first set forth above.

ASSIGNEE:

GOOGLE LLC

By:  DocuSigned by:
3EA0F750F3E74B3...

Name: Michael Lee

Title: Authorized Signatory of Google LLC

EXHIBIT A
LISTED PATENTS

Patent No.	Application No.	Country	Title
10,191,984	14/061,562	US	Systems and Methods for Cancelling a Query
	16/261,509	US	Systems and Methods for Cancelling a Query
9,824,118	13/839,559	US	Querying One or More Databases
	15/818,588	US	Querying One or More Databases
2014233506	2014233506	AU	Querying One or More Databases
	2904788	CA	Querying One or More Databases
	201480015671	CN	Querying One or More Databases
	14764233.4	EP	Querying One or More Databases
	16102072.9	HK	Querying One or More Databases
6400073	2016-503133	JP	Querying One or More Databases
	PCT/US2014/029551	WO	Querying One or More Databases
10,176,226	14/555,013	US	Relation Aware Aggregation (RAA) on Normalized Datasets
	PCT/US2015/062185	WO	Relation Aware Aggregation (RAA) on Normalized Datasets
	2015353782	AU	Relation Aware Aggregation (RAA) on Normalized Datasets
2016282315	2016282315	AU	Relation Aware Aggregation (RAA) on Normalized Datasets
	2965831	CA	Relation Aware Aggregation (RAA) on Normalized Datasets
	15864044.1	EP	Relation Aware Aggregation (RAA) on Normalized Datasets
6517930	2017-522387	JP	Relation Aware Aggregation (RAA) on Normalized Datasets
10,114,867	14/726,403	US	Methods and Systems for Selectively Retrieving Data to Provide a Limited Dataset for Incorporation into a Pivot Table
	PCT/US2016/034186	WO	Methods and Systems for Selectively Retrieving Data to Provide a Limited Dataset for Incorporation into a Pivot Table
	2016270327	AU	Methods and Systems for Selectively Retrieving Data to Provide a Limited Dataset for Incorporation into a Pivot Table

	2986688	CA	Methods and Systems for Selectively Retrieving Data to Provide a Limited Dataset for Incorporation into a Pivot Table
	16804043.4	EP	Methods and Systems for Selectively Retrieving Data to Provide a Limited Dataset for Incorporation into a Pivot Table
6710224	2017-560679	JP	Methods and Systems for Selectively Retrieving Data to Provide a Limited Dataset for Incorporation into a Pivot Table
	1873236	FR	Security of Rest Data Using the Transportability of Agnostic Encrypted Data of a Server Network Service Provider
	16/223,622	US	Securing Data at Rest Utilizing Cloud Provider Service Agnostic Encrypted Data Transportability
	3028091	CA	Securing Data at Rest Utilizing Cloud Provider Service Agnostic Encrypted Data Transportability
	16/403,492	US	Join Pattern Agnostic Aggregate Computation in Database Query Operations
	3048699	CA	Join Pattern Agnostic Aggregate Computation in Database Query Operations
	1907273	FR	Join Pattern Agnostic Aggregate Computation in Database Query Operations
	16/362,675	US	Streaming Envelope Encryption
	16/417,630	US	Adaptive Model Augmentation Based Upon Historical Query Patterns
	16/443,827	US	Dependency Visualization for Model Objects
	1907275	FR	Adaptive Model Augmentation Based Upon Historical Query Patterns
	3048876	CA	Adaptive Model Augmentation Based Upon Historical Query Patterns
	16/822,620	US	Adaptive Join Graph Generation
	2007433.2	GB	Adaptive Model Augmentation Based Upon Historical Query Patterns
	2007433.21	DE	Adaptive Model Augmentation Based Upon Historical Query Patterns
	16/690,069	US	Building Universal Data Index for Purpose of Exploring Data Faster
	16/730,950	US	Data Content Governance
	16/597,265	US	Key Management Service Call Reduction Through Independent Caching Layer

	16/556,410	US	Modeling YAML Configurations
	3062460	CA	Post hoc Image and Volume Review of Short-Lived Linux Containers
	1912827	FR	Post hoc Image and Volume Review of Short-Lived Linux Containers
	16/687,636	US	Post hoc Image and Volume Review of Short-Lived Linux Containers
	3069092	CA	Optimal Query Scheduling for Resource Utilization Optimization
	2000264	FR	Optimal Query Scheduling for Resource Utilization Optimization
	16/741,723	US	Optimal Query Scheduling for Resource Utilization Optimization
	16/783,166	US	Style Governance Selection
	3060800	CA	Re-Usable Componentized Queries for Navigable Multi-Level Composited Query Results (Turtles)
	1912117	FR	Re-Usable Componentized Queries for Navigable Multi-Level Composited Query Results (Turtles)
	16/666,736	US	Re-Usable Componentized Queries for Navigable Multi-Level Composited Query Results (Turtles)
	3069090	CA	Optimal Query Scheduling for Data Freshness
	2000260	FR	Optimal Query Scheduling for Data Freshness
	16/741,733	US	Optimal Query Scheduling for Data Freshness
	3077291	CA	Model Localization for Data Analytics and Business Intelligence
	2002728	FR	Model Localization for Data Analytics and Business Intelligence
	16/824,902	US	Model Localization for Data Analytics and Business Intelligence
	16/989,827	US	Pre-Execution of Queries Based Upon a Cost Function and a Known Pattern of Receipt of Underlying Data