

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6971827

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
BAIDU USA LLC	10/13/2021
RECEIVING PARTY DATA	
Name:	BAIDU USA LLC
Street Address:	1195 BORDEAUX DR.
City:	SUNNYVALE
State/Country:	CALIFORNIA
Postal Code:	94089
Name:	KUNLUNXIN TECHNOLOGY (BEIJING) COMPANY LIMITED
Street Address:	CW SECTION, F/4, BUILDING 1, NO.10, SHANGDI 10TH STREET
Internal Address:	HAIDIAN DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100101
PROPERTY NUMBERS Total: 39	
Property Type	Number
Application Number:	16598129
Application Number:	16709468
Application Number:	16684345
Application Number:	16684320
Application Number:	16684295
Application Number:	16684248
Application Number:	16598318
Application Number:	16598281
Application Number:	16598192
Application Number:	16598151
Application Number:	16891508
Application Number:	16891458
Application Number:	16869082
Application Number:	16568143

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Property Type	Number
Application Number:	16568127
Application Number:	16900597
Application Number:	16900584
Application Number:	16900561
Application Number:	16899880
Application Number:	16899865
Application Number:	16899852
Application Number:	16899846
Application Number:	16598086
Application Number:	16598563
Application Number:	16598497
Application Number:	16598955
Application Number:	16598428
Application Number:	16598371
Application Number:	16598415
Application Number:	16709389
Application Number:	16709316
Application Number:	16709240
Application Number:	16709020
Application Number:	16693019
Application Number:	16693015
Application Number:	16693010
Application Number:	16692980
Application Number:	17142933
Application Number:	17142946

CORRESPONDENCE DATA

Fax Number: (312)977-4405

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: smonreal@nixonpeabody.com

Correspondent Name: NIXON PEABODY LLP

Address Line 1: 70 W. MADISON STREET

Address Line 2: SUITE 5200

Address Line 4: CHICAGO, ILLINOIS 60602

ATTORNEY DOCKET NUMBER:	078291-265-3
NAME OF SUBMITTER:	JUSTIN D. SWINDELLS
SIGNATURE:	/Justin D. Swindells - Reg. No. 48,733/
DATE SIGNED:	10/15/2021

Total Attachments: 6

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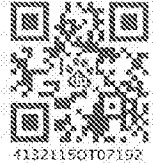
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CONFIRMATION OF JOINT OWNERSHIP AND PATENT ASSIGNMENT

THIS CONFIRMATION OF JOINT OWNERSHIP AND PATENT ASSIGNMENT ("Agreement") is entered into by and between the following Joint Owners:

Baidu USA LLC, a corporation, organized and existing under the laws of the Country of U.S.A, having its principal place of business at 1195 Bordeaux Dr., Sunnyvale, California 94089, (hereinafter referred to as "Assignor"); and

Kunlunxin Technology (Beijing) Company Limited, a corporation organized and existing under the laws of China, having its principal place of business at CW Section, F/4, Building 1, No.10, Shangdi 10th Street, Haidian District, 100101, Beijing, China, (hereinafter referred to as "ASSIGNEE");

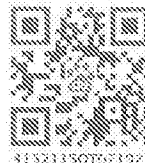
WHEREAS, the Joint Owners wish to record Assignor and ASSIGNEE, collectively, as joint owners of the Jointly Owned Patents set forth in Schedule A hereto with the United States Patent and Trademark Office and other national patent offices;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

Assignor hereby confirms that Assignor has sold, assigned, conveyed, and transferred unto ASSIGNEE, as of [March 19, 2021], Assignor's partial but not the entire right, title and undivided interest in and to each of the Jointly Owned Patents identified in Schedule A hereto. By virtue of this assignment, both Assignor and ASSIGNEE are joint owners of the entire right, title, and interest in and to the Jointly Owned Patents.

Where appropriate, each of the Joint Owners authorizes and requests the Commissioner of Patents and Trademarks of the United States, or the applicable official at the United States Patent and Trademark Office, and any official of any country or countries foreign to the United States whose duty it is to issue patents, or any legal equivalent thereof, to record Assignor and ASSIGNEE as the current Joint Owners of all right, title, and interest in and to the Jointly Owned Patents.

IN WITNESS WHEREOF, the Joint Owners have executed this Agreement or caused it to be executed as of the dates written below.



Baidu USA LLC (Assignor)

By: 王海峰

Date: October 13, 2021

Name: WANG Haifeng

Title: Chief Technology Officer of Baidu

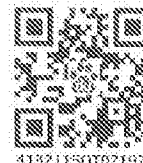
Kunlunxin Technology (Beijing) Company
Limited (ASSIGNEE)

By: 欧阳 Jian

Date: October 13, 2021

Name: OUYANG Jian

Title: CEO

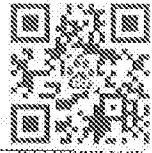


SCHEDULE A

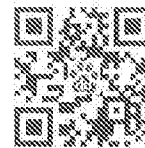
FOR CONFIRMATION OF JOINT OWNERSHIP AND PATENT ASSIGNMENT AMONG
Baidu USA LLC AND Kunlunxin Technology (Beijing) Company Limited AS JOINT
OWNERS

PATENTS AND PATENT APPLICATIONS SUBJECT TO THE COMMON OWNERSHIP (COLLECTIVELY,
"JOINTLY OWNED PATENTS")

Serial No.	Title	Status	Reference No.
US16/598, 129	Method For Implanting A Watermark In A Trained Artificial Intelligence Model For A Data Processing Accelerator	Published	BZ190531USL7
US16/709, 468	Systems And Methods For An Operating System Module For A Data Processing Accelerator	Allowed	BZ190910USL3
US16/684, 345	Systems And Methods For Verifying A Watermark Of An Ai Model For A Data Processing Accelerator	Published	BZ190815USL4
US16/684, 320	Systems And Methods For Learning New Watermark Algorithms For A Data Processing Accelerator	Published	BZ190815USL3
US16/684, 295	Systems And Methods For Configuring A Watermark Unit With Watermark Algorithms For A Data Processing Accelerator	Published	BZ190815USL2
US16/684, 248	Systems And Methods For Signing An Ai Model With A Watermark For A Data Processing Accelerator	Published	BZ190815USL1
US16/598, 318	Method And System For Making An Artificial Intelligence Inference Using A Watermark-Inherited Kernel For A Data Processing Accelerator	Published	BZ190531USL11
US16/598, 281	Method And System For Artificial Intelligence Model Training Using A Watermark-Enabled Kernel For A Data Processing Accelerator	Published	BZ190531USL10
US16/598, 192	Method And System For Making An Artificial Intelligence Inference Using A Watermark-Enabled Kernel For	Published	BZ190531USL9

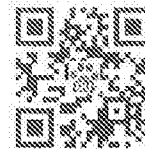


Serial No.	Title	Status	Reference No.
	A Data Processing Accelerator		
US16/598,151	Method And System For Artificial Intelligence Model Training Using A Watermark-Enabled Kernel For A Data Processing Accelerator	Published	BZ190531USL8
US16/891,508	Data Protection With Dynamic Resource Isolation For Data Processing Accelerators		BZ200401USL1
US16/891,458	Data Protection With Static Resource Partition For Data Processing Accelerators		BZ200319USL1
US16/869,082	Method For Obfuscated Ai Model Training For Data Processing Accelerators		BZ200311USL1
US16/568,143	Data Transmission With Obfuscation Using An Obfuscation Unit For A Data Processing (DP) Accelerator	Published	BZ190625USL2
US16/568,127	Data Transmission With Obfuscation For A Data Processing (DP) Accelerator	Published	BZ190625USL1
US16/900,597	Method For Ai Model Transferring With Address Randomization		BZ200311USL8
US16/900,584	Method For Ai Model Transferring With Layer And Memory Randomization		BZ200311USL7
US16/900,561	Method For Ai Model Transferring With Layer Randomization		BZ200311USL6
US16/899,880	Method For Data Protection In A Data Processing Cluster With Authentication		BZ200311USL5
US16/899,865	Method For Data Protection In A Data Processing Cluster With Dynamic Partition		BZ200311USL4
US16/899,852	Method For Data Protection In A Data Processing Cluster With Partition		BZ200311USL3
US16/899,846	Method For Data Protection In A Data Processing Cluster With Policy-Based Partition		BZ200311USL2



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Serial No.	Title	Status	Reference No.
US16/598,086	Watermark Unit For A Data Processing Accelerator	Published	BZ190531USL6
US16/598,563	Method And System For Signing An Artificial Intelligence Watermark Using Kernel	Published	BZ190531USL5
US16/598,497	Method And System For Signing Output Using Kernel	Published	BZ190531USL4
US16/598,955	Method And System For Signing An Artificial Intelligence Watermark Using Implicit Data	Office Action	BZ190531USL3
US16/598,428	Method And System For Encrypting Data Using A Kernel	Office Action	BZ190531USL2
US16/598,371	Method And System For Encrypting Data Using A Command	Office Action	BZ190531USL1
US16/598,415	Method And System For Signing An Artificial Intelligence Watermark Using A Query	Published	BZ190527USL1
US16/709,389	System And Method To Securely Broadcast A Message To Accelerators	Office Action	BZ190606USL8
US16/709,316	System And Method To Securely Broadcast A Message To Accelerators With Switch	Office Action	BZ190606USL7
US16/709,240	System And Method To Securely Broadcast A Message To Accelerators Using Virtual Channels	Published	BZ190606USL6
US16/709,020	System And Method To Securely Broadcast A Message To Accelerators Using Virtual Channels With Switch	Published	BZ190606USL5
US16/693,019	Method For Key Sharing Between Accelerators	Published	BZ190606USL4
US16/693,015	Method For Key Sharing Between Accelerators With Switch	Published	BZ190606USL3
US16/693,010	Method For Key Sharing Between Accelerators In Virtual Channel	Published	BZ190606USL2



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Serial No.	Title	Status	Reference No.
US16/092,980	Method For Key Sharing Between Accelerators In Virtual Channel With Switch	Published	BZ190606USL1
US17/142,933	Method For Virtual Machine Migration With Checkpoint Authentication In Virtualization Environment		BZ201023USL11
US17/142,946	Method For Virtual Machine Migration With Artificial Intelligence Accelerator Status Validation In Virtualization Environment		BZ201023USL12

