

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7876929

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	XNOR.AI, INC.	03/23/2020
RECEIVING PARTY DATA		
Name:	APPLE INC.	
Street Address:	ONE APPLE PARK WAY	
City:	CUPERTINO	
State/Country:	CALIFORNIA	
Postal Code:	95014	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16788261
CORRESPONDENCE DATA		
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<i>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.</i>		
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Correspondent Name:	BAKERHOSTETLER	
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ATTORNEY DOCKET NUMBER:	045738.006838	
NAME OF SUBMITTER:	MICHAEL G. DREZNES REG. NO. 59,965	
SIGNATURE:	/Michael G. Dreznes/	
DATE SIGNED:	03/30/2023	
Total Attachments: 7		
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ASSIGNMENT

This Assignment is made with by **Xnor.ai, Inc.**, a company duly organized under the laws of the State of Delaware and having an address at 936 N. 34th Street, Suite 400, Seattle, WA 98103 (hereinafter the “Assignor”):

WHEREAS, Assignor is the owner of all of the worldwide rights, title and interest in and to the patents and patent applications set forth on Schedule A hereto (hereinafter the “Listed Patents and Applications”);

WHEREAS, **Apple Inc.**, a corporation duly organized under and pursuant to the laws of the State of California, and having a principal place of business at One Apple Park Way, Cupertino, California 95014 (hereinafter the “Assignee”), is desirous of acquiring the entire worldwide right, title and interest in and to said Listed Patents and Applications and the Assigned Patents and Applications (as defined below);

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, said Assignor has sold, assigned, transferred and conveyed, and by this Assignment does hereby sell, assign, transfer and convey, unto said Assignee, its successors, legal representatives and assigns, Assignor’s entire worldwide right, title and interest in and to the above-mentioned Listed Patents and Applications, and in and to any and all (a) applications (including, but not limited to, provisional applications) and patents from or to which any Listed Patents and Applications claim priority (in whole or in part) or that share common priority (in whole or in part) with any Listed Patents and Applications, (b) divisionals, continuations, continuations-in-part and foreign counterparts of any of the foregoing, (c) patents granted for, on, or extending any of any of the foregoing, (d) other types of patents, including, but not limited to, design patents, utility models, or other types of patents that derive from, extend, or claim priority based on any of any of the foregoing, (e) reissues, reexaminations and extensions of any of the foregoing, and (f) inventions described in any of the foregoing (collectively, the “Assigned Patents and Applications”), together with all rights under international treaties relating to intellectual property, including, but not limited to, the Paris Convention for the Protection of Industrial Property and the Patent Cooperation Treaty, and to claim all rights of priority resulting from the filing of any of the foregoing, all of the foregoing to be held and enjoyed by said Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, to the full end of the term or terms of any and all Assigned Patents and Applications for which patents may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignor, had this sale and assignment not been made. Assignor does hereby sell, assign, transfer, and convey to Assignee, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the Assigned Patents and Applications that may have accrued prior to the date of assignment to Assignee, or may accrue hereafter including, but not limited to, the right to sue for, collect, and retain damages for past, present and future infringement of any of the said Assigned Patents and Applications before or after issuance. To the extent that Schedule A hereto contains any typographical or administrative error but it is clear which patent or patent application was intended to be included in the sale, assignment, transfer and conveyance under this Assignment, Assignor and Assignee each acknowledge and agree that the intended patent or patent application is hereby sold, assigned, transferred and conveyed, along with all other rights, privileges and claims enumerated above with respect to such intended patent or patent application.

IN TESTIMONY WHEREOF,

Sonorai, Inc.

By: *Allen*

Name: Allen

Title: President

Date: 5/25/20

Apple Inc.

By: *[Signature]*

Name: Christy L. Meyer

Title: Chief IP Counsel

Date: 5/31/2020

SCHEDULE "A" to Assignment

Country Code	Type of Patent (e.g., Utility, Design, etc.)	Patent Application No.	Filing Date	Grant Number	Grant Date	Publication Number	Publication Date	Title
US	Utility-ORG	16/404,023	5/6/2019			US-2019-0340524	11/7/2019	Model Selection Interface
US	Provisional	62/667,991	5/7/2018					Model Selection Interface
WO	Utility-ORG	PCT/US2019/031160	5/7/2019			WO2019/217451	11/14/2019	Generating a Customized Machine-Learning Model to Perform Tasks Using Artificial Intelligence
US	Utility-ORG	16/386,151	4/16/2019			US-2019-0325269	10/24/2019	Improving Image Classification through Label Progression
US	Provisional	62/660,901	4/20/2018					Label Refinery: Improving ImageNet Classification through Label Progression
WO	Utility-ORG	PCT/US2019/028570	4/22/2019			WO2019/204824	10/24/2019	Improving Image Classification through Label Progression

Country Code	Type of Patent (e.g., Utility, Design, etc.)	Patent Application No.	Filing Date	Grant Number	Grant Date	Publication Number	Publication Date	Title
US	Utility-ORG	15/852,650	12/22/2017	10,579,897	3/3/2020	US-2019-0102646	4/4/2019	Image-Based Object Detection
US	Utility-CON	16/751,141	1/23/2020					Image-Based Object Detection
US	Provisional	62/566,744	10/2/2017					Image-Based Object Detection
US	Utility-ORG	16/038,083	7/17/2018			US-2019-0026600	1/24/2019	Lookup-Based Convolutional Neural Network
US	Provisional	62/534,401	7/19/2017					Lookup-Based Convolutional Neural Network
								Fast Nearest Neighbor Search for Output Generation of Convolutional Neural Networks
US	Utility-ORG	16/672,352	11/1/2019					Fast Nearest Neighbor Search for Output Generation of Convolutional Neural Networks
US	Provisional	62/858,911	6/7/2019					Optimizing Binary Convolutional Neural Networks
US	Utility-PRI	16/452,441	6/25/2019					

Country Code	Type of Patent (e.g., Utility, Design, etc.)	Patent Application No.	Filing Date	Grant Number	Grant Date	Publication Number	Publication Date	Title
US	Utility-PRI	16/215,544	12/10/2018					Digital Watermarking of Machine- Learning Models
US	Utility-PRI	16/215,540	12/10/2018					Integrating Binary Inference Engines and Model Data for Efficiency of Inference Tasks
CN	Utility-ORG	202010084948.5	2/10/2020					Customizable Chip for AI Applications
US	Utility-PRI	16/272,997	2/11/2019					Customizable Chip for AI Applications
WO	Utility-ORG	PCT/US2020/017755	2/11/2020					Customizable Chip for AI Applications
US	Utility-PRI	16/539,430	8/13/2019					Detecting Fake Videos
US	Provisional	62/804,744	2/12/2019					Use Cases for Compressed AI Model
US	Utility-ORG							Integrating Fusion and Quantization in Building A Compressed Convolutional Neural Network Model

Country Code	Type of Patent (e.g., Utility, Design, etc.)	Patent Application No.	Filing Date	Grant Number	Grant Date	Publication Number	Publication Date	Title
US	Provisional	62/804,684	2/12/2019					Integrating Fusion and Quantization in Building A Compressed Convolutional Neural Network Model
US	Utility-PRI	16/559,533	9/3/2019					Machine-Learning Tasks with Privacy Indications
US	Utility-PRI	16/547,352	8/21/2019					Detection of Moment of Perception
US	Provisional	62/855,642	5/31/2019					Discovering Neural Wirings
US	Provisional	62/857,003	6/4/2019					Butterfly Transform: An Efficient FFT Based Neural Architecture Design
US	Utility-PRI	16/672,357	11/1/2019					Varying Audio Visual Compression based on AI Detection or Classification Results

Country Code	Type of Patent (e.g., Utility, Design, etc.)	Patent Application No.	Filing Date	Grant Number	Grant Date	Publication Number	Publication Date	Title
US	Provisional	62/929,706	11/1/2019					Object Detection Based on Pixel Differences