

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6898642

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	LASERLIKE, INC.	11/19/2019
RECEIVING PARTY DATA		
Name:	APPLE INC.	
Street Address:	ONE APPLE PARK WAY	
City:	CUPERTINO	
State/Country:	CALIFORNIA	
Postal Code:	95014	
PROPERTY NUMBERS Total: 24		
Property Type	Number	
Application Number:	15445924	
Application Number:	15445927	
Application Number:	15445929	
Application Number:	15445931	
PCT Number:	US2018020299	
Application Number:	15908493	
Application Number:	62465117	
Application Number:	62588134	
Application Number:	16179587	
Application Number:	15896863	
Application Number:	15664766	
Application Number:	16152300	
Application Number:	15922588	
Application Number:	62636770	
PCT Number:	US2019019880	
Application Number:	15908666	
PCT Number:	US2019019882	
Application Number:	15959791	
Application Number:	16051220	
Application Number:	16042446	

Property Type	Number
Application Number:	62715130
Application Number:	16177226
Application Number:	15908671
PCT Number:	US2019019883

CORRESPONDENCE DATA

Fax Number: (714)830-0700

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.

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Address Line 4: COSTA MESA, CALIFORNIA 92626-7653

NAME OF SUBMITTER: MICHAEL G. DREZNES, REG. NO. 59,965

SIGNATURE: /Michael G. Dreznes/

DATE SIGNED: 09/02/2021

Total Attachments: 5

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ASSIGNMENT

This Assignment is made by Laserlike, Inc., a corporation duly organized under the laws of the State of Delaware and having a registered address at Corporation Trust Center, 1209 Orange Street, Wilmington, DE 19801, USA (hereinafter the "Assignor"):

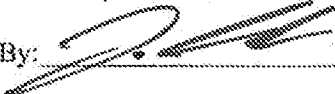
WHEREAS, Assignor is the owner of all of the worldwide rights, title and interest in and to the patents and patent applications set forth on Schedule A hereto (hereinafter the "Listed Patents and Applications");

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 convey, 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,

Laserlike, Inc.

By: 

Name: Jeff Schmidt

Title: President

Date: November 19, 2019

Apple Inc.

By: 

Name: Jeffrey L. Myers

Title: Chief IP Counsel

Date: November 19, 2019

EXHIBIT A

Patents

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	15/445,924	2/28/2017			US-2018-024697A1	8/30/2018	Enhanced Search To Generate A Feed Based On A User's Interests
US	Utility-PRI	15/445,927	2/28/2017			US-2018-024697A1	8/30/2018	User Interest Modeling
US	Utility-PRI	15/445,929	2/28/2017			US-2018-024689A1	8/30/2018	Generate An Index For Enhanced Search Based On User Interests
US	Utility-PRI	15/445,931	2/28/2017			US-2018-024697A1	8/30/2018	Enhanced Search For Generating A Content Feed
WO	Utility-ORG	PCT/US2018/020299	2/28/2018			WO2018/16074	9/7/2018	Enhanced Search To Generate A Feed Based On A User's Interests
US	Utility-ORG	15/908,493	2/28/2018			US-2018-025349A1	9/6/2018	Interest Embedding Vectors
US	Provisional	62/465,117	2/28/2017					Enhanced Search For Generating A Content Feed
US	Provisional	62/588,134	11/17/2017					Emoji Classifier

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-CIP	16/179,587	11/2/2018			US-2019-025871 A1	8/22/2019	Emoji Classifier
US	Utility-PRI	15/896,863	2/14/2018					Query Normalization
US	Utility-PRI	15/664,766	7/31/2017					Validating Interests For A Search And Feed Service
US	Utility-PRI	16/152,300	10/4/2018					Golden Embeddings
US	Utility-ORG	15/922,588	3/15/2018			US-2019-026625 A1	8/29/2019	Vector Similarity Search In An Embedded Space
US	Provisional	62/636,770	2/28/2018					Vector Similarity Search In An Embedded Space
WO	Utility-ORG	PCT/US2019/019880	2/27/2019			WO2019/16902	9/6/2019	Vector Similarity Search In An Embedded Space
US	Utility-PRI	15/908,666	2/28/2018			US-2019-026628 A1	8/29/2019	Query Topic Map
WO	Utility-ORG	PCT/US2019/019882	2/27/2019			WO2019/16902	9/6/2019	Query Topic Map
US	Utility-PRI	15/959,791	4/23/2018					Web Crawling Intake Processing Enhancements

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	16/051,220	7/31/2018					Optimizing Static Object Allocation In Garbage Collected Programming Languages
US	Utility-PRI	16/042,446	7/23/2018					Personalized User Feed Based On Monitored Activities
US	Provisional	62/715,130	8/6/2018					Vector Space Representation Of Interests
US	Utility-PRI	16/177,226	10/31/2018					Query Pattern Matching
US	Utility-PRI	15/908,671	2/28/2018			US-2019-026628 A1	8/29/2019	Content Channel Curation
WO	Utility-ORG	PCT/US2019/019883	2/27/2019			WO2019/16902	9/6/2019	Content Channel Curation