PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8117964

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NIANTIC INTERNATIONAL TECHNOLOGY LIMITED	10/21/2021

RECEIVING PARTY DATA

Name:	NIANTIC, INC.
Street Address:	ONE FERRY BUILDING
Internal Address:	SUITE 200
City:	SAN FRANCISCO
State/Country:	CALIFORNIA
Postal Code:	94111

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	18103002

CORRESPONDENCE DATA

Fax Number: (650)983-5200

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.

Phone: 6503357686
Email: clabella@fenwick.com
Correspondent Name: MALASHAAN KIND
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Address Line 2: 801 CALIFORNIA STREET
Address Line 4: MOUNTAIN VIEW, CALIFORNIA 94041

ATTORNEY DOCKET NUMBER:	32533-54738/US
NAME OF SUBMITTER:	MALASHAAN KIND
SIGNATURE:	/Malashaan Kind/
DATE SIGNED:	08/16/2023

Total Attachments: 4
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, **Niantic International Technology Limited**, a Private Limited Company of the United Kingdom, having a place of business at 11th Floor Whitefriars, Lewins Mead, Bristol, England, BS1 2NT ("ASSIGNOR"), has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Niantic, Inc.**, a Delaware corporation, having a place of business at **One Ferry Building, Suite 200, San Francisco, CA 94111** ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional or non-provisional application(s), including those filed under 35 U.S.C. § 111, design applications filed under 35 U.S.C. § 171, Registered Community Designs, international applications filed according to the Patent Cooperation Treaty (PCT), U.S. national phase applications filed under 35 U.S.C. § 371, national or regional applications filed in any other country throughout the world, and any patents issuing thereon ("PATENT RIGHTS"):

COUNTRY	APPLICATION NO	FILING DATE	TITLE
US	16/332,343	September 12, 2017	Predicting Depth From Image Data Using a Statistical Model
WO	PCT/GB2017/052671	September 12, 2017	Predicting Depth From Image Data Using a Statistical Model
GB	16154700	September 12, 2016	Predicting Depth From Image Data Using a Statistical Model
AU	2017324923	September 12, 2017	Predicting Depth From Image Data Using a Statistical Model
BR	BR 11 2019 004798 0	September 12, 2017	Predicting Depth From Image Data Using a Statistical Model
CA	3,035,298	September 12, 2017	Predicting Depth From Image Data Using a Statistical Model
CN	201780055710.6	September 12, 2017	Predicting Depth From Image Data Using a Statistical Model
EP	17794764.5	September 12, 2017	Predicting Depth From Image Data Using a Statistical Model
JP	2019-535986	September 12, 2017	Predicting Depth From Image Data Using a Statistical Model
KR	10-2019-7010331	September 12, 2017	Predicting Depth From Image Data Using a Statistical Model
US	62/673,045	May 17, 2018	Self-Supervised Training of a Depth Estimation System
US	16/413,907	May 16, 2019	Self-Supervised Training of a Depth Estimation System
US	17/354,517	June 22, 2021	Self-Supervised Training of a Depth Estimation System
WO	PCT/US2019/032616	May 16, 2019	Self-Supervised Training of a Depth Estimation System
TW	108117215	May 17, 2019	Self-Supervised Training of a Depth Estimation System

AU	2019270095	May 16, 2019	Self-Supervised Training of a Depth Estimation System
CA	3,100,640	May 16, 2019	Self-Supervised Training of a Depth Estimation System
CN	201980047649.X	May 16, 2019	Self-Supervised Training of a Depth Estimation System
EP	19802580.1	May 16, 2019	Self-Supervised Training of a Depth Estimation System
JP	2020-564565	May 16, 2019	Self-Supervised Training of a Depth Estimation System
KR	10-2020-7036300	May 16, 2019	Self-Supervised Training of a Depth Estimation System
US	63/124,757	December 12, 2020	Self-Supervised Monocular Depth Estimation Using Multiple Video Frames
US	63/023,247	May 11, 2020	Generating Stereo Data from Monocular Images
US	17/317,619	May 11, 2021	Generating Stereo Data from Monocular Images
WO	PCT/IB2021/054030	May 11, 2021	Generating Stereo Data from Monocular Images
TW	110116994	May 11, 2021	Generating Stereo Data from Monocular Images
US	63/123,474	December 10, 2020	Visual Camera Re-Localization Using Graph Neural Networks and Relative Pose Supervision
US	62/987,849	March 10, 2020	Determining Traversable Free Space from Single Images
US	17/193,878	March 5, 2021	Determining Traversable Space from Single Images
WO	PCT/IB2021/051947	March 9, 2021	Determining Traversable Space from Single Images
TW	110108388	March 9, 2021	Determining Traversable Space from Single Images
US	63/171,575	April 6, 2021	Panoptic Segmentation Forecasting for Augmented Reality
US	63/193,005	May 25, 2021	Image Depth Prediction with Wavelet Decomposition
US	63/064,621	August 12, 2020	Feature Matching Using Single-Image Depth Prediction
US	17/396,568	August 6, 2021	Feature Matching Using Features Extracted From Perspective Corrected Image
WO	PCT/IB2021/057342	August 9, 2021	Feature Matching Using Features Extracted From Perspective Corrected Image
TW	110129856	August 12, 2021	Feature Matching Using Single-Image Depth Prediction
US	17/398,443	August 10, 2021	Determining Visual Overlap of Images by Using Box Embeddings
WO	PCT/IB2021/057390	August 11, 2021	Determining Visual Overlap of Images by Using Box Embeddings
TW	110129857	August 12, 2021	Feature Matching Using Single-Image Depth Prediction
US	17/215,859	March 29, 2021	Travel of Virtual Characters
JP	2021-124795	July 29, 2021	Travel of Virtual Characters
US	17/216,381	March 29, 2021	Multi-User Route Tracking in an Augmented Reality Environment

JP	2021-124796	July 29, 2021	Multi-User Route Tracking in an Augmented Reality Environment
US	17/216,413	March 29, 2021	Interactable Augmented and Virtual Reality Experience
JP	2021-124797	July 29, 2021	Interactable Augmented and Virtual Reality Experience
US	16/413,907	May 16, 2019	Self-Supervised Training of a Depth Estimation System
WO	PCT/US2019/032616	May 16, 2019	Self-Supervised Training of a Depth Estimation System
AU	2019270095	May 16, 2019	Self-Supervised Training of a Depth Estimation System
CA	3100640	May 16, 2019	Self-Supervised Training of a Depth Estimation System
CN	201980047649X	May 16, 2019	Self-Supervised Training of a Depth Estimation System
EP	198025801	May 16, 2019	Self-Supervised Training of a Depth Estimation System
JP	2020564565	May 16, 2019	Self-Supervised Training of a Depth Estimation System
KR	1020207036300	May 16, 2019	Self-Supervised Training of a Depth Estimation System
TW	108117215	May 17, 2019	Self-Supervised Training of a Depth Estimation System

and;

2. The entire worldwide right, title, and interest in and to:

(a) the PATENT RIGHTS, including any right of priority; (b) any provisional, divisional, continuation, substitute, renewal, reissue, and other related applications thereto which have been or may be filed in the United States or elsewhere in the world; (c) any patents which may be granted on the applications set forth in (a) and (b) above; and (d) the right to sue in its own name and to recover for past infringement of any or all of any applications or patents issuing therefrom together with all rights to recover damages for infringement of provisional rights.

ASSIGNOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titled and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER of the above-identified patent applications and Letters Patents; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER of the above-identified patent applications and Letters Patents and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. ASSIGNOR further agrees to provide any successor, transferee, assignee, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

ASSIGNOR represents that ASSIGNOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the ASSIGNOR has made or will make

hereafter no assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

ASSIGNOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Duly Authorized Representative of ASSIGNOR

Courtney Greene Power

Courtney Greene Power
Director
NIANTIC INTERNATIONAL TECHNOLOGY LIMITED

Date of Signature

10/21/2021

Duly Authorized Representative of ASSIGNEE

Courtney Greene Power

Courtney Greene Power
General Counsel
NIANTIC, INC.

Date of Signature

10/21/2021