PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LE AN	08/18/2020
YU-TE CHENG	08/18/2020
OLIVER WILHELM KNIEPS	08/18/2020
SU INN PARK	08/18/2020

RECEIVING PARTY DATA

Name:	NVIDIA CORPORATION
Street Address:	2788 SAN TOMAS EXPRESSWAY
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95051

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16997847

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	0112912-144US1	
NAME OF SUBMITTER:	SONIA YBARRA TOYO	
SIGNATURE:	/Sonia Ybarra Toyo/	
DATE SIGNED:	10/18/2023	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 7

source=2023-10-18_20-SC-0083US03__0112912-144US1__Assignment_and_Declaration_from_parent#page1.tif

source=2023-10-18_20-SC-0083US030	112912-144US1_	_Assignment_and_Declaration_from_parent#page2.tif
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source=2023-10-18_20-SC-0083US030	112912-144US1_	_Assignment_and_Declaration_from_parent#page7.tif

U.S. Patent Appln. No. 16/997,847 Attorney Docket No. 0112912-144US0 Filing Date August 19, 2020 Client Docket No. 20-SC-0083US02 PARTIES TO THE ASSIGNMENT Assignor(s): Le An Oliver Wilhelm Knieps 2788 San Tomas Expressway 2788 San Tomas Expressway Santa Clara, CA 95051 Santa Clara, CA 95051 Yu-Te Cheng Su Inn Park 2788 San Tomas Expressway 2788 San Tomas Expressway Santa Clara, CA 95051 Santa Clara, CA 95051 Assignee: **NVIDIA Corporation** 2788 San Tomas Expressway Santa Clara, CA 95051 <u>AGREEMENT</u> WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled "OBJECT DETECTION USING PLANAR HOMOGRAPHY AND SELF-SUPERVISED SCENE STRUCTURE UNDERSTANDING" (Invention) for which a non-provisional application for United States Letters Patent (Application): was filed on ______, and accorded U.S. Application No. _____; or will be filed concurrently with the submission of this executed PATENT ASSIGNMENT for recordation. ASSIGNOR(S) hereby authorizes and requests ASSIGNEE'S legal representatives, of Davis Wright Tremaine LLP, associated with Customer No. 119055, to insert in the header above and here in parentheses (U.S. Patent Application No. ______, filed ______) this

PATENT
REEL: 065271 FRAME: 0509

application's U.S. application number and filing date, when known.

U.S. Patent Appln. No. 16/997,847

Attorney Docket No. 0112912-144US0

Filing Date August 19, 2020

Client Docket No. 20-SC-0083US02

Title of Invention: OBJECT DETECTION USING PLANAR HOMOGRAPHY AND SELF-SUPERVISED

SCENE STRUCTURE UNDERSTANDING

Inventors: Le An, Yu-Te Cheng, Oliver Wilhelm Knieps, and Su Inn Park

Le An, Tu-Te Cheng, Onver willenn Kineps, and 30 mil Fark

WHEREAS, ASSIGNEE, a corporation of the State of Delaware, is desirous of acquiring the

entire right, title and interest in and to the Invention and in and to any letters patent that may be

granted therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which

is hereby acknowledged, ASSIGNOR(S) hereby sell, assign and transfer unto ASSIGNEE its

successors and assigns, the entire right, title and interest in and to said Invention and any

improvements thereto, said Application and any and all letters patent which may be granted for

said Invention in the United States of America and its territorial possessions and in any and all

foreign countries, and in any and all provisional, divisions, reissues, re-examinations and

continuations thereof, including the right to file foreign applications directly in the name of

ASSIGNEE and to claim priority rights deriving from said Application to which said foreign

applications are entitled by virtue of international convention, treaty or otherwise, said Invention,

Application and all letters patent on said Invention to be held and enjoyed by ASSIGNEE and its

successors and assigns for their use and benefit and of their successors and assigns as fully and

entirely as the same would have been held and enjoyed by ASSIGNOR(S) had this assignment,

transfer and sale not been made. ASSIGNOR(S) hereby authorize and request the Commissioner

of Patents and Trademarks, as well as all other applicable patent offices throughout the world, to

issue all letters patent on said Invention to ASSIGNEE. ASSIGNOR(S) agree to execute all

instruments and documents required for the making and prosecution of applications for United

States and foreign letters patent on said Invention, for litigation regarding said letters patent, or

for the purpose of protecting title to said Invention or letters patent therefor.

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U.S. Patent Appln. No. 16/997,847

Attorney Docket No. 0112912-144US0

Filing Date August 19, 2020

Client Docket No. 20-SC-0083US02

Title of Invention: OBJECT DETECTION USING PLANAR HOMOGRAPHY AND SELF-SUPERVISED

SCENE STRUCTURE UNDERSTANDING

Inventors: Le An, Yu-Te Cheng, Oliver Wilhelm Knieps, and Su Inn Park

AND ASSIGNOR(S) 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 rights assigned hereby 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 infringements of said letters patent before or after

issuance.

AND ASSIGNOR(S) DOES HEREBY covenant and agree that ASSIGNOR(S) will communicate

to ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR

respecting the Invention or said Application, and testify in any legal proceeding, assist in the

preparation of any other patent property relating to the Application and the Invention or any

improvements made thereto, sign/execute all lawful papers, provide all requested documents,

execute and make all rightful oaths and/or declarations in connection with the Application and

the Invention including any improvements made thereto, any patent applications filed therefrom,

and any continuing application filed from any of the aforementioned applications, and generally

do everything possible to aid ASSIGNEE, its successors, legal representatives and assigns, to obtain

and enforce proper patent protection for the Invention in all countries. These provisions are

binding upon ASSIGNOR's heirs, legal representatives, administrators, and assigns.

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U.S. Patent Appln. No. <u>16/997,847</u>	Attorney Docket No. <u>0112912-144US0</u>	
Filing Date August 19, 2020	Client Docket No. 20-SC-0083US02	
Title of Invention: OBJECT DETECTION USSCENE STRUCTURE UNDERSTANDING	SING PLANAR HOMOGRAPHY AND SELF-SUPERVISED	
Inventors: Le An, Yu-Te Cheng, Oliver W	filhelm Knieps, and Su Inn Park	
<u>DECLARATION</u>		
As a below named inventor, I hereby de	clare that:	
This declaration is directed to:		
igstyle igstyle igstyle igstyle the attached application; or		
United States Patent Applica	ation number, filed on; or	
PCT International Applicatio	n number filed on	
The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed Invention in the		
application.		
	e contents of the above-identified application, and US Patent & Trademark Office all information known to s defined in 37 CFR 1.56.	
I hereby acknowledge that any willful fal	se statement made in this declaration is punishable under	
18 USC 1001 by fine or imprisonment of	not more than five (5) years, or both.	
Docusigned by: UM 92DBEEC92DFF493 Le An	-	
8/18/2020		
Date		

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U.S. Patent Appln. No. <u>16/997,847</u>		Attorney Docket No. <u>0112912-144US0</u>
Filing Date August 19, 2020		Client Docket No. 20-SC-0083US02
Title of Invention: OBJECT DETECTION USIS	<u>NG PLANAR HOI</u>	MOGRAPHY AND SELF-SUPERVISED
Inventors: Le An, Yu-Te Cheng, Oliver Wil	helm Knieps, a	nd Su Inn Park
<u>DECLARATION</u>		
As a below named inventor, I hereby decl	are that:	
This declaration is directed to:		
igstyle igstyle igstyle the attached application; or		
United States Patent Applicati	on number	, filed on; or
PCT International Application	number	filed on
The above-identified application was mad		
application.		
I have reviewed and understand the	contents of	the above-identified application, and
acknowledge the duty to disclose to the U	JS Patent & Tra	demark Office all information known to
me to be material to the patentability as o	defined in 37 CI	FR 1.56.
I hereby acknowledge that any willful false	statement ma	de in this declaration is punishable under
18 USC 1001 by fine or imprisonment of n	ot more than f	ive (5) years, or both.
DocuSigned by: 2B6FB0F5B18F4DD		
Yu-Te Cheng		
8/18/2020		
Date		

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U.S. Patent Appln. No. <u>16/997,847</u>	Attorney Docket No. <u>0112912-144US0</u>	
Filing Date August 19, 2020	Client Docket No. 20-SC-0083US02	
Title of Invention: <u>OBJECT DETECTION USI</u> <u>SCENE STRUCTURE UNDERSTANDING</u>	NG PLANAR HOMOGRAPHY AND SELF-SUPERVISED	
Inventors: Le An, Yu-Te Cheng, Oliver Wil	helm Knieps, and Su Inn Park	
DECLARATION		
As a below named inventor, I hereby decl	are that:	
This declaration is directed to:		
igstyle igstyle igstyle the attached application; or		
United States Patent Applicati	on number, filed on; or	
PCT International Application	number filed on	
The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed Invention in the		
application.		
I have reviewed and understand the	contents of the above-identified application, and	
acknowledge the duty to disclose to the l	JS Patent & Trademark Office all information known to	
me to be material to the patentability as	defined in 37 CFR 1.56.	
I hereby acknowledge that any willful false	statement made in this declaration is punishable under	
18 USC 1001 by fine or imprisonment of r	ot more than five (5) years, or both.	
Oliver Wilhelm Knieps Oliver Wilhelm Knieps		
8/18/2020		
Date		

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U.S. Patent Appin. No. 15/997,847	Attorney Docket No. <u>0112912-144US0</u>
Filing Date <u>August 19, 2020</u>	Client Docket No. 20-SC-0083US02
Title of Invention: OBJECT DETECTION USING PLANA SCENE STRUCTURE UNDERSTANDING	AR HOMOGRAPHY AND SELF-SUPERVISED
Inventors: Le An, Yu-Te Cheng, Oliver Wilhelm Kni	eps, and Su Inn Park
<u>DECLARATION</u>	
As a below named inventor, I hereby declare that:	
This declaration is directed to:	
igstyle igstyle igstyle igstyle the attached application; or	
United States Patent Application numb	er; filed on; or
PCT International Application number	filed on
The above-identified application was made or auth	norized to be made by me.
I believe that I am the original inventor or an original application.	nal joint inventor of a claimed Invention in the
I have reviewed and understand the content	
acknowledge the duty to disclose to the US Patent me to be material to the patentability as defined in	
I hereby acknowledge that any willful false stateme 18 USC 1001 by fine or imprisonment of not more	· ·
DocuSigned by: Su lun Park 28203A49D30F465	
Su Inn Park	
8/18/2020	
Date	

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PATENT **REEL: 065271 FRAME: 0515 RECORDED: 10/18/2023**