PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7689966

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TERO TAPANI KARRAS	10/13/2020
SAMULI MATIAS LAINE	10/12/2020
DAVID PATRICK LUEBKE	10/13/2020
JAAKKO T. LEHTINEN	10/13/2020
MIIKA SAMULI AITTALA	10/13/2020
TIMO OSKARI AILA	10/13/2020
MING-YU LIU	10/12/2020
ARUN MOHANRAY MALLYA	10/12/2020
TING-CHUN WANG	10/12/2020

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:	18079772

CORRESPONDENCE DATA

Fax Number: (312)616-5700

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: 3126165600

Email: assignments@leydig.com LEYDIG, VOIT & MAYER **Correspondent Name:**

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Address Line 4: CHICAGO, ILLINOIS 60601

ATTORNEY DOCKET NUMBER: 514161/20-HE-0162US06 NAME OF SUBMITTER: STEPHANIE L. WINNER

PATENT REEL: 062116 FRAME: 0001 507643071

SIGNATURE:	/Stephanie L. Winner/
DATE SIGNED:	12/12/2022

Total Attachments: 27

source=Signed-Assignment 20-HE-0162US06#page1.tif source=Signed-Assignment 20-HE-0162US06#page2.tif source=Signed-Assignment_20-HE-0162US06#page3.tif source=Signed-Assignment 20-HE-0162US06#page4.tif source=Signed-Assignment_20-HE-0162US06#page5.tif source=Signed-Assignment 20-HE-0162US06#page6.tif source=Signed-Assignment 20-HE-0162US06#page7.tif source=Signed-Assignment 20-HE-0162US06#page8.tif source=Signed-Assignment_20-HE-0162US06#page9.tif source=Signed-Assignment_20-HE-0162US06#page10.tif source=Signed-Assignment 20-HE-0162US06#page11.tif source=Signed-Assignment 20-HE-0162US06#page12.tif source=Signed-Assignment_20-HE-0162US06#page13.tif source=Signed-Assignment_20-HE-0162US06#page14.tif source=Signed-Assignment 20-HE-0162US06#page15.tif source=Signed-Assignment 20-HE-0162US06#page16.tif source=Signed-Assignment_20-HE-0162US06#page17.tif source=Signed-Assignment 20-HE-0162US06#page18.tif source=Signed-Assignment 20-HE-0162US06#page19.tif source=Signed-Assignment 20-HE-0162US06#page20.tif source=Signed-Assignment_20-HE-0162US06#page21.tif source=Signed-Assignment 20-HE-0162US06#page22.tif source=Signed-Assignment 20-HE-0162US06#page23.tif source=Signed-Assignment 20-HE-0162US06#page24.tif source=Signed-Assignment_20-HE-0162US06#page25.tif source=Signed-Assignment 20-HE-0162US06#page26.tif source=Signed-Assignment 20-HE-0162US06#page27.tif

> PATENT REEL: 062116 FRAME: 0002

WHEREAS, I, an undersigned individual, have invented of Letters Patent (the "Application") in:	ertain invention(s) described in an	application for
Ξ the United States \Box another jurisdiction	;	
Ξ enclosed herewith or \square previously filed on date	under Serial No.	;
with docket number and title: 20-HE-0162-US02/513182; NETWORK ASSISTED VIDEO RECONSTRUCTION	GENERATIVE ADVERSARIAL	NEURAL

WHEREAS, NVIDIA Corporation, a corporation of the State of Delaware, having a place of business at 2788 San Tomas Expressway, Santa Clara, CA 95051; U.S.A. ("NVIDIA"), desires to acquire the entire right, title, and interest in and to the invention(s) disclosed in the Application and all embodiments of such invention(s) previously conceived, made, or discovered by me during my employment with or within the scope of my work in any capacity for NVIDIA (collectively, the "Inventions"), and in and to the Application and any and all other applications for utility patents, utility models, inventor's certificates, and other forms of invention protection or rights for the Inventions in any and all countries and groups of countries (collectively, the "Applications"), and in and to any and all patents, inventors certificates, and other forms of invention protection or rights arising therefrom (the "Patents").

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by me to have been received in full from NVIDIA:

- 1. I hereby sell, assign, transfer and convey to NVIDIA the entire right, title and interest (a) in and to the Inventions and the Application; (b) in and to all rights to apply for patents and all other forms of invention protection or rights on the Inventions in any and all countries pursuant to the Paris Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on the Inventions in any and all countries and groups of countries, including each and every application filed and each and every patent granted on any application which is a conventional, division, substitution, continuation, or continuation-in-part of any of the Applications; and (d) in and to each and every reissue or extension of any of the Patents.
- 2. I hereby covenant and agree to cooperate with NVIDIA to enable NVIDIA to enjoy to the fullest extent the right, title and interest to the Inventions herein conveyed in any and all countries and groups of countries. My cooperation shall include prompt production of pertinent facts and documents, giving testimony, executing petitions, oaths, specifications, declarations or other papers, and providing other assistance to the extent deemed necessary or desirable by NVIDIA (a) for perfecting in NVIDIA the right, title and interest herein conveyed; (b) for prosecuting the Applications; (c) for filing and prosecuting substitute, conventional, divisional, continuation, continuation-in-part, or additional applications covering the Inventions; (d) for filing and prosecuting applications for reexamination or reissuance of any of the Patents; (e) in assisting NVIDIA in any pre-grant or post-grant proceeding involving any of the Inventions, Applications, or Patents; and (f) in assisting NVIDIA in any court or administrative proceedings involving any of the Inventions, Applications, or Patents, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, and infringement actions; provided, however, that reasonable expenses incurred by me in providing such cooperation shall be paid for by NVIDIA.
- 3. I hereby agree that the terms and covenants of this Assignment Agreement (the "Agreement") shall inure to the benefit of NVIDIA, its successors, assigns and other legal representatives, and shall be binding upon me, my heirs, my legal representatives, and my assigns.

NVIDIA Corporation Assignment Agreement

- 4. I hereby warrant and represent that I have not entered into and will not enter into any assignment, license, contract, or understanding in conflict herewith.
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- 6. I hereby agree that this Agreement contains the entire understanding between NVIDIA and me relating to the subject matter contained herein, and supersedes all prior and collateral communications and understandings between NVIDIA and me.
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(Printed legal name of inventor) Tero Tapani Karras	
	(Date)
(Inventor's mailing address) Purjeentekijankuja 13 A 8, Helsink	ri, FI 00200
(Printed legal name of inventor) Samuli Matias Laine	
(Inventor's signature)	(Date)
(Inventor's mailing address) <u>Tāhtimōntie 21, Vantaa, FI 01350</u>	
(Printed legal name of inventor) <u>David Patrick Luebke</u>	
(Inventor's signature)	(Date)
(Inventor's mailing address) 1801 Walnut Ridge Court, Charlot	tesville, VA 22911
(Printed legal name of inventor) <u>Jaakko T. Lehtinen</u>	
(Inventor's signature)	(Date)
(Inventor's mailing address) Porkkalankatu 1, 5th Floor, Helsin	ki, FI 00180

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(Printed legal name of inventor) Miika Samuli A	<u>aittala</u>
(Inventor's signature)	(Date)
(Inventor's mailing address) <u>c/o NVIDIA Corpo</u>	oration, Porkkalankatu 1, Helsinki, FI 00180
(Printed legal name of inventor) <u>Timo Oskari Ai</u>	ila
(Inventor's signature)	(Date)
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(Printed legal name of inventor) Ming-Yu Liu	
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Printed legal name of inventor) Arun Mohanray	Mallya
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(Inventor's mailing address) 3507 Palmilla Driv	ve, Apt. 4035, San Jose, CA 95134
(Printed legal name of inventor) Ting-Chun War	<u>ng</u>
(Inventor's signature)	(Date)
(Inventor's mailing address) 3460 Flora Vista A	Avenue, Santa Clara, CA 95051

WHEREAS, I, an undersigned individual, have invented certain invention(s) described in an application for

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(Printed legal name of inventor) Tero Tapani Karras			
(Inventor's signature)	(Date)		
(Inventor's mailing address) Purjeentekijankuja 13 A 8, Helsinki, FI 00200			
(Printed legal name of inventor) Samuli Matias Laine DocuSigned by:			
(Inventor's signatur / Samuli Matias Laine /	(Date)		
(Inventor's mailing address) <u>Tähtimöntie 21, Vantaa, FI 01350</u>			
(Printed legal name of inventor) <u>David Patrick Luebke</u>			
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(Inventor's mailing address) 1801 Walnut Ridge Court, Charlottesville, VA 22911			
(Printed legal name of inventor) <u>Jaakko T. Lehtinen</u>			
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(Inventor's mailing address) Porkkalankatu 1, 5th Floor, Helsinki, FI 00180			
(· · · · · · · · · · · · · · · · · · ·			

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(Inventor's signature)	(Date)
(Inventor's mailing address) c/o NVIDIA Co	rporation, Porkkalankatu 1, Helsinki, FI 00180
(Printed legal name of inventor) <u>Timo Oskari</u>	Aila
(Inventor's signature)	(Date)
(Inventor's mailing address) <u>Lukkarintie 2 H</u>	26, Tuusula, FI 04310
(Printed legal name of inventor) Ming-Yu Liu	1
(Inventor's signature)	(Date)
(Inventor's mailing address) 269 William Ma	anly Street, San Jose, CA 95136
Printed legal name of inventor) Arun Mohann	ay Mallya
(Inventor's signature)	(Date)
(Inventor's mailing address) 3507 Palmilla D	Prive, Apt. 4035, San Jose, CA 95134
(Printed legal name of inventor) Ting-Chun W	Vang
(Inventor's signature)	(Date)
(Inventor's mailing address) 3460 Flora Vista	a Avenue, Santa Clara, CA 95051

WHEREAS, I, an undersigned individual, have invented a Letters Patent (the "Application") in:	certain invention(s) described in an	application for
∃ the United States □ another jurisdiction	;	
Ξ enclosed herewith or \square previously filed on date	under Serial No.	;
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(Inventor's signature) Jacko T. Lutinen /	(Date) 10/13/2020
(Inventor's mailing address) Porkkalankatu 1, 5th Floor, Helsin	ki, FI 00180

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- 2. I hereby covenant and agree to cooperate with NVIDIA to enable NVIDIA to enjoy to the fullest extent the right, title and interest to the Inventions herein conveyed in any and all countries and groups of countries. My cooperation shall include prompt production of pertinent facts and documents, giving testimony, executing petitions, oaths, specifications, declarations or other papers, and providing other assistance to the extent deemed necessary or desirable by NVIDIA (a) for perfecting in NVIDIA the right, title and interest herein conveyed; (b) for prosecuting the Applications; (c) for filing and prosecuting substitute, conventional, divisional, continuation, continuation-in-part, or additional applications covering the Inventions; (d) for filing and prosecuting applications for reexamination or reissuance of any of the Patents; (e) in assisting NVIDIA in any pre-grant or post-grant proceeding involving any of the Inventions, Applications, or Patents; and (f) in assisting NVIDIA in any court or administrative proceeding involving any of the Inventions, Applications, or Patents, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, and infringement actions; provided, however, that reasonable expenses incurred by me in providing such cooperation shall be paid for by NVIDIA.
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NVIDIA Corporation Assignment Agreement

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(Printed legal name of inventor) <u>Tero Tapani Karras</u>		
(Inventor's signature)	(Date)	
(Inventor's mailing address) Purjeentekijankuja 13 A 8, Helsink	ki, FI 00200	
(Printed legal name of inventor) <u>Samuli Matias Laine</u>		
(Inventor's signature)	(Date)	
(Inventor's mailing address) <u>Tāhtimōntie 21, Vantaa, FI 01350</u>		
(Printed legal name of inventor) <u>David Patrick Luebke</u>		
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(Inventor's mailing address) 1801 Walnut Ridge Court, Charlottesville, VA 22911		
(Printed legal name of inventor) <u>Jaakko T. Lehtinen</u>		
(Inventor's signature)	(Date)	
(Inventor's mailing address) Porkkalankatu 1, 5th Floor, Helsinki, FI 00180		

NVIDIA Corporation Assignment Agreement

(Printed legal name of inventor) Milka Samuli Aittala	
(Inventor's signature) Mika Samuli Littala /	(Date)
(Inventor's mailing address) <u>c/o NVIDIA Corporation</u> , l	Porkkalankatu 1, Helsinki, FI 00180
(Printed legal name of inventor) <u>Timo Oskari Aila</u>	
(Inventor's signature)	(Date)
(Inventor's mailing address) <u>Lukkarintie 2 H 26, Tuusul</u>	la, FI 04310
(Printed legal name of inventor) Ming-Yu Liu	
(Inventor's signature)	(Date)
(Inventor's mailing address) 269 William Manly Street,	San Jose, CA 95136
Printed legal name of inventor) Arun Mohanray Mallya	
(Inventor's signature)	(Date)
(Inventor's mailing address) 3507 Palmilla Drive, Apt. 4	4035, San Jose, CA 95134
(Printed legal name of inventor) Ting-Chun Wang	
(Inventor's signature)	(Date)
(Inventor's mailing address) 3460 Flora Vista Avenue, 9	Santa Clara, CA 95051

WHEREAS, I, an undersigned individual, have invented a Letters Patent (the "Application") in:	certain invention(s) described in an	application for
∃ the United States □ another jurisdiction	;	
Ξ enclosed herewith or \square previously filed on date	under Serial No.	;
with docket number and title: <u>20-HE-0162-US02/513182</u> . NETWORK ASSISTED VIDEO RECONSTRUCTION.	<u>GENERATIVE ADVERSARIAI</u>	<u>NEURAL</u>

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(Printed legal name of inventor) Timo Oskari Aila		
(Inventor's signature) FBE089F05BT04CA	(Date) ^{10/13/2020}	
(Inventor's mailing address) Rosinankaari 7, Tuusula, FI 04310)	
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(Inventor's signature)	(Date)
(Inventor's mailing address) <u>Lukkarintie 2 H 2</u>	26, Tuusula, FI 04310
(Printed legal name of inventor) Ming-Yu Liu	
(Inventor's signature)/ Ming-Yu Liu /	(Date) 10/12/2020
	nly Street, San Jose, CA 95136
D: (11 1 C: () A M1	M II
Printed legal name of inventor) Arun Mohanra	y Mallya
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Ξ the United States □ another jurisdiction	;	
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Dainte d legal name of inventory Array Maha	nga. Malla
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