

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7097031

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
VISHNU BALAN	11/16/2021
MOHAMMAD MOBIN	11/11/2021
ROHIT RATHI	12/02/2021
DAI DAI	11/16/2021
RAANAN IVRY	11/22/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NVIDIA CORPORATION
<b>Street Address:</b>	2788 SAN TOMAS EXPRESSWAY
<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95051
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17326032
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)715-1201
<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>	
<b>Phone:</b>	4087151211
<b>Email:</b>	sjohnson@artegislaw.com, algdocketing@artegislaw.com
<b>Correspondent Name:</b>	ARTEGIS LAW GROUP, LLP
<b>Address Line 1:</b>	710 LAKEWAY DRIVE
<b>Address Line 2:</b>	SUITE 120
<b>Address Line 4:</b>	SUNNYVALE, CALIFORNIA 94085
<b>ATTORNEY DOCKET NUMBER:</b>	NVDA18SC0247C1P1
<b>NAME OF SUBMITTER:</b>	JOHN C. CAREY
<b>SIGNATURE:</b>	/John C. Carey/
<b>DATE SIGNED:</b>	12/29/2021
This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 9**

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## ASSIGNMENT FOR APPLICATION FOR PATENT WITH DECLARATION STATEMENT

WHEREAS:

Names and Addresses of Inventors:

1)	Vishnu BALAN Saratoga, CA	2)	Mohammad MOBIN Murphy, TX
3)	Rohit RATHI Milpitas, CA	4)	Dai DAI Sunnyvale, CA
5)	Raanan IVRY Caesarea, Israel		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

### RECEIVER AND TRANSMITTER ADAPTATION USING STOCHASTIC GRADIENT HILL CLIMBING WITH GENETIC MUTATION

enclosed herewith or for which application for Letters Patent in the United States was filed on  
May 20, 2021 under Serial No. 17/326,032; and

WHEREAS, **NVIDIA CORPORATION**, a corporation of the State of Delaware, having a place of business at 2701 San Tomas Expressway, Santa Clara, California 95050 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention 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, divisional, substitution, continuation, or continuation-in-part of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting any conventional, divisional,

Attorney Docket No.: NVDA18SC0247C1P1

substitution, continuation, continuation-in-part, or additional application(s) covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. In the event that the filing date and/or Application No. of said Invention are not entered above at the time Assignors execute this document, and if such information is deemed necessary, Assignors hereby authorize and request the attorney/agent(s) of **Artegis Law Group, LLP**, to insert above the filing date and/or Application No. of said application.

6. This declaration is directed to the attached application, or (if following box is checked):

☒ United States application or PCT international application number  
17/326,032 filed on May 20, 2021.

As a below named inventor, I hereby declare that:

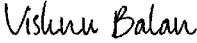
The above-identified application was made or authorized to be made by me;

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application; and

I acknowledge that any willful false statement made in this declaration is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) 11-16-2021 (DATE)

DocuSigned by:  
  
 41A80EFF6C1A4C6...  
 Vishnu BALAN

2) \_\_\_\_\_ (DATE)

\_\_\_\_\_  
 Mohammad MOBIN

3) 12-02-2021 (DATE)

DocuSigned by:  
  
 0E3E619B83AD418...  
 Rohit RATHI

Attorney Docket No.: NVDA18SC0247C1P1

4) 11-16-2021 \_\_\_\_\_ (DATE)

DocuSigned by:

*Dai Dai*

8520071C399147E...

Dai DAI

5) \_\_\_\_\_ (DATE)

Raanan IVRY

# **ASSIGNMENT FOR APPLICATION FOR PATENT WITH DECLARATION STATEMENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Vishnu BALAN Saratoga, CA	2)	Mohammad MOBIN Murphy, TX
3)	Rohit RATHI Milpitas, CA	4)	Dai DAI Sunnyvale, CA
5)	Raanan IVRY Caesarea, Israel		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

## **RECEIVER AND TRANSMITTER ADAPTATION USING STOCHASTIC GRADIENT HILL CLIMBING WITH GENETIC MUTATION**

enclosed herewith or for which application for Letters Patent in the United States was filed on  
May 20, 2021 under Serial No. 17/326,032; and

WHEREAS, **NVIDIA CORPORATION**, a corporation of the State of Delaware, having a place of business at 2701 San Tomas Expressway, Santa Clara, California 95050 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention 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, divisional, substitution, continuation, or continuation-in-part of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting any conventional, divisional,

substitution, continuation, continuation-in-part, or additional application(s) covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. In the event that the filing date and/or Application No. of said Invention are not entered above at the time Assignors execute this document, and if such information is deemed necessary, Assignors hereby authorize and request the attorney/agent(s) of **Artegis Law Group, LLP**, to insert above the filing date and/or Application No. of said application.

6. This declaration is directed to the attached application, or (if following box is checked):

☒ United States application or PCT international application number  
17/326,032 filed on May 20, 2021.

As a below named inventor, I hereby declare that:

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; and

I acknowledge that any willful false statement made in this declaration is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) \_\_\_\_\_ (DATE) Vishnu BALAN

2) \_\_\_\_\_ (DATE) Mohammad MOBIN

3) \_\_\_\_\_ (DATE) Rohit RATHI

4) \_\_\_\_\_ (DATE) Dai DAI

5) Nov 22nd 2021 (DATE)

Raanan IVRY

A handwritten signature in black ink, consisting of a series of loops and strokes, positioned over a horizontal line.



## ASSIGNMENT FOR APPLICATION FOR PATENT WITH DECLARATION STATEMENT

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Mohammad MOBIN

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4) \_\_\_\_\_ (DATE) Dai DAI

5) \_\_\_\_\_ (DATE)

\_\_\_\_\_  
Raanan IVRY