PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREA MIELE	09/09/2019

RECEIVING PARTY DATA

Name:	NVIDIA CORPORATION
Street Address:	2788 SAN TOMAS EXPRESSWAY
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16559424

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ATTORNEY DOCKET NUMBER:	0112912-050US0
NAME OF SUBMITTER:	PHILIP H. ALBERT
SIGNATURE:	/Philip H. Albert/
DATE SIGNED:	09/09/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4
source=2019-09-06 19-SC-0204US01 (0112912-050US0) Assignment and Declaration (Signed)#page1.tif
source=2019-09-06 19-SC-0204US01 (0112912-050US0) Assignment and Declaration (Signed)#page2.tif
source=2019-09-06 19-SC-0204US01 (0112912-050US0) Assignment and Declaration (Signed)#page3.tif
source=2019-09-06 19-SC-0204US01 (0112912-050US0) Assignment and Declaration (Signed)#page4.tif

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. <u>16/559,424</u>   Attorney Docket No. <u>0112912-050US0</u>

Filing Date <u>September 3, 2019</u>   Client Docket No. <u>19-SC-0204US01</u>

PARTIES TO THE ASSIGNMENT

<u>Assignor</u>
Andrea Miele
2788 San Tomas Expressway
Santa Clara, CA 95051

<u>Assignee:</u>
NVIDIA Corporation
2788 San Tomas Expressway
Santa Clara, CA 95051

AGREEMENT

WHEREAS, ASSIGNOR(S) (listed above) are inventor(s) of an invention entitled

<u>PERFORMING CYCLIC REDUNDANCY CHECKS USING PARALLEL COMPUTING ARCHITECTURES</u>

(Invention) for which a non-provisional application for United States Letters Patent (Application):

☒ was filed on <u>September 3, 2019</u>, and accorded U.S. Application No. <u>16/559,424</u>; 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 <u>Davis Wright Tremaine LLP</u>, associated with Customer No. <u>119055</u>, to insert in the header above and here in parentheses (U.S. Patent Application No. <u>16/559,424</u>, filed <u>September 3, 2019)</u> this application's U.S. application number and filing date, when known.

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

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. 16/559,424   Attorney Docket No. 0112912-050US0

Filing Date September 3, 2019   Client Docket No. 19-SC-0204US01

Title of Invention: PERFORMING CYCLIC REDUNDANCY CHECKS USING PARALLEL COMPUTING ARCHITECTURES

Inventor: **Andrea Miele**

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.

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.

PATENT ASSIGNMENT AND DECLARATION (37 CFR 1.63)

U.S. Patent Appln. No. <u>16/559,424</u>   Attorney Docket No. <u>0112912-050US0</u>

Filing Date <u>September 3, 2019</u>   Client Docket No. <u>19-SC-0204US01</u>

Title of Invention: <u>PERFORMING CYCLIC REDUNDANCY CHECKS USING PARALLEL COMPUTING</u>
<u>ARCHITECTURES</u>

Inventor: **Andrea Miele**

        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.

PATENT
REEL: 050317 FRAME: 0822

U.S. Patent Appln. No. 16/559,424   Attorney Docket No. 0112912-050US0

Filing Date September 3, 2019   Client Docket No. 18-SC-0206US01

Title of Invention: PERFORMING CYCLIC REDUNDANCY CHECKS USING PARALLEL COMPUTING ARCHITECTURES

Inventor: Andrea Miele

DECLARATION

As a below named inventor, I hereby declare that:

This declaration is directed to:

☐ the attached application; or

☒ United States Patent Application number 16/559,424, filed on September 3, 2019; 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 US 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 not more than five (5) years, or both.

Andrea Miele
Andrea Miele

03/09/2019
Date