

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5041109

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID REED	11/19/2015
ALOK GUPTA	11/19/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NVIDIA CORPORATION
<b>Street Address:</b>	2701 SAN TOMAS EXPRESSWAY
<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95050
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16026954
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(972)480-8865
<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>	972-480-8800
<b>Email:</b>	docket@pj-iplaw.com
<b>Correspondent Name:</b>	PARKER JUSTISS, P.C./NVIDIA
<b>Address Line 1:</b>	14241 DALLAS PARKWAY
<b>Address Line 2:</b>	SUITE 620
<b>Address Line 4:</b>	DALLAS, TEXAS 75254
<b>ATTORNEY DOCKET NUMBER:</b>	14-SC-0382US04
<b>NAME OF SUBMITTER:</b>	J. JOEL JUSTISS
<b>SIGNATURE:</b>	/J. Joel Justiss/
<b>DATE SIGNED:</b>	07/09/2018
<b>Total Attachments: 1</b>	
source=14-SC-0382US04_Assignment#page1.tif	

# Assignment to NVIDIA Corporation

In consideration of good and valuable consideration, receipt of which is hereby acknowledged, I/we

David REED, Alok GUPTA

do hereby sell, assign, and transfer unto NVIDIA Corporation (hereinafter called NVIDIA), a Delaware Corporation having its principal place of business at 2701 San Tomas Expressway, Santa Clara, CA 95050, and its successors and assigns, the entire right, title, and interest for the United States and all foreign countries, in and to any and all Improvements, including the right of priority in, to, and under, the application for the United States patent entitled:

**CONTROLLER-BASED MEMORY SCRUB FOR DRAMS WITH INTERNAL ERROR-CORRECTING CODE (ECC) BITS CONTEMPORANEOUSLY DURING AUTO REFRESH OR BY USING MASKED WRITE COMMANDS**

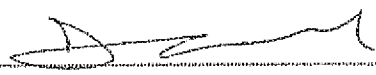
X filed herewith and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; or

Serial No.: \_\_\_\_\_ filed on \_\_\_\_\_ and the inventions set forth and described therein, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor;

And for the above consideration, I/we agree promptly upon request of NVIDIA, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, continuation, divisional or reissue, or other papers which may be necessary or desirable fully to secure to NVIDIA, its successors and assigns, the inventions described in said application and all patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication or reexamination of said Letters Patent provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by NVIDIA.

I/we further covenant with NVIDIA, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned;

In witness whereof, I/we hereunto set my/our hand(s) and seal:

Inventor's Signature:  Date: 11/19/2015  
David REED

Inventor's Signature:  Date: 11/19/2015  
Alok GUPTA