

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4424494

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HORIA SIMIONESCU	05/17/2017
TIMOTHY HOGLUND	05/22/2017
SRIDHAR RAO VEERLA	05/18/2017
PANTHINI PANDIT	05/18/2017
GOWRISANKAR RADHAKRISHNAN	05/19/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD.
<b>Street Address:</b>	NO. 1 YISHUN AVENUE 7
<b>City:</b>	SINGAPORE
<b>State/Country:</b>	SINGAPORE
<b>Postal Code:</b>	768923
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15601073
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	303-863-9700
<b>Email:</b>	mreno@sheridanross.com
<b>Correspondent Name:</b>	SHERIDAN ROSS P.C.
<b>Address Line 1:</b>	1560 BROADWAY, SUITE 1200
<b>Address Line 4:</b>	DENVER, COLORADO 80202
<b>ATTORNEY DOCKET NUMBER:</b>	5887-455
<b>NAME OF SUBMITTER:</b>	MATTHEW R. ELLSWORTH
<b>SIGNATURE:</b>	/Matthew R. Ellsworth/
<b>DATE SIGNED:</b>	05/22/2017
<b>Total Attachments: 4</b>	
source=20170522_assignment_n_5887-455#page1.tif	

source=20170522\_assignment\_n\_5887-455#page2.tif

source=20170522\_assignment\_n\_5887-455#page3.tif

source=20170522\_assignment\_n\_5887-455#page4.tif

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, I am an inventor or joint inventor of an Invention entitled:

METHOD AND SYSTEM FOR HARDWARE ACCELERATED COPYBACK

which Invention is described and claimed in a United States patent application filed May 22, 2017 as US application serial number 15/601,073 (the Application); and

WHEREAS, Avago Technologies General IP (Singapore) Pte. Ltd. (Company Registration No. 200512430D), a company incorporated under the laws of Singapore whose registered office is at No. 1 Yishun Avenue 7, Singapore 768923 (hereinafter AVAGO), desires to acquire the Invention and the Application, and any patent that may be granted therefor in the United States and in any foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I hereby sell, assign, convey and transfer to AVAGO, its successors and assigns, the entire right, title and interest, in and to the Invention and the Application and all other applications for patent which have been or shall be filed in the United States and all foreign countries for the Invention, and all continuations, continuations-in-part, divisionals, renewals and substitutes therefore, and all the rights and privileges under any and all patents that may be granted therefore including any reissues, reexaminations and extensions thereof.

I authorize AVAGO to make applications for patent or other form of protection for the Invention in AVAGO's own name in any and all countries, and to invoke and claim the benefit of all rights of priority provided by any and all treaties, conventions or agreements without further written or oral authorization.

I agree to communicate to AVAGO or to its nominee all known facts respecting the Invention, to testify in any legal proceedings, to execute all oaths, declarations, assignments, powers of attorney and other papers, and generally to do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for the Invention in any and all countries and for vesting title thereto in AVAGO, its successors and assigns, in any and all countries provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by AVAGO;

I hereby authorize and request the Patent and Trademark Office officials in the United States and in any foreign countries to issue any and all patents, inventor's certificates, utility certificates, utility models, or certificates of addition for the Invention to AVAGO as assignee of the entire interest.

I hereby covenant that I have full right to convey the entire interest herein assigned, and that I have not executed and will not execute any agreement in conflict herewith.

I hereby grant AVAGO attorneys the power to insert on this document any further information necessary or desirable to comply with the rules of the United States Patent and Trademark Office.

IN WITNESS WHEREOF, executed by me on the date below.

INVENTOR

Name: Horia Simionescu

Date: 05/17/2017

Signature:



Additional inventors listed on supplemental page.

Supplemental Page to Assignment of Patent Application  
Additional Inventors

INVENTOR

Name: Timothy Hoglund Date: 5/22/17  
Signature: 

INVENTOR

Name: Sridhar Rao Veerla Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: Panthini Pandit Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: Gowrisankar Radhakrishnan Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

Supplemental Page to Assignment of Patent Application  
Additional Inventors

INVENTOR

Name: Timothy Hoglund Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: Sridhar Rao Veerla Date: 16 - May - 2017  
Signature: S. Sridhar Rao

INVENTOR

Name: Panthini Pandit Date: 18 - May - 2017  
Signature: Panthini

INVENTOR

Name: Gowrisankar Radhakrishnan Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

Supplemental Page to Assignment of Patent Application  
Additional Inventors

INVENTOR

Name: Timothy Hoglund Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

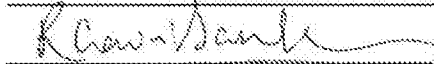
INVENTOR

Name: Sridhar Rao Veerla Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: Panthini Pandit Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: Gowrisankar Radhakrishnan Date: 5/19/17  
Signature: 

INVENTOR

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

INVENTOR

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_