502189426 01/09/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Marcin Kamil Augustyniak	01/07/2013
Aun Choon Chong	12/27/2012
Kek Leong Yap	12/27/2012

RECEIVING PARTY DATA

Name:	Avago Technologies General IP (Singapore) Pte. Ltd.			
Street Address:	No. 1 Yishun Avenue 7			
City:	Singapore			
State/Country:	SINGAPORE			
Postal Code:	768923			

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13737756

CORRESPONDENCE DATA

Fax Number: 9702880617

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 970-288-0731

Email: avagoip@system.foundationip.com
Correspondent Name: Avago Technologies Limited

Address Line 1: 4380 Ziegler Road

Address Line 4: Fort Collins, COLORADO 80525

ATTORNEY DOCKET NUMBER:	2012-073USORG		
NAME OF SUBMITTER:	Matthew R. Ellsworth		
	This document serves as an Oath/Declaration (37 CFR 1.63).		

Total Attachments: 3

source=DEC_ASSIGNMENT_2012-073#page1.tif source=DEC_ASSIGNMENT_2012-073#page2.tif source=DEC_ASSIGNMENT_2012-073#page3.tif

> PATENT REEL: 029599 FRAME: 0209

TCH \$40.00 137377;

COMBINED	DECLA	RATION A	AND	
ASSIGNME	NT FOR	PATENT	APPLICATION	ı

ATTORNEY DOCKET NO.

2012-073USORG

DECLARATION

As a below named inventor, I hereby declare that:

The application identified below was made or authorized to be made by me.

I believe that I am the original inventor or invention entitled:	original joint inventor of a claimed inven	tion in the application for which a patent is sought on	ı the
SINGLE TRACK THREE-CHANNEL ENG	CODER WITH DIFFERENTIAL INDEX		
the specification of which is attached here	to unless the following box is checked:		
was filed onNumber	as US Application Sertal No. o	r PCT International Application (if applicable).	
to above. I acknowledge the duty to discle	ose all information which is material to pa	n, including the claims, as amended by any amendment atentability as defined in 37 CFR 1.56. unishable under 18 .U.S.C 1001 by fine or imprisonment	
Send Correspondence to:	Direct Tel	ephone Calls to:	
AVAGO TECHNOLOGIES, LTD. 4380 Ziegler Road Fort Collins, CO 80525		OR Scott Weitzel (970) 288-0747	

ASSIGNMENT OF PATENT APPLICATION

I/We the undersigned (each) have agreed and hereby agree to assign to 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), in furtherance of my/our obligations to AVAGO, and do hereby assign and transfer to AVAGO, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Patent of the United States and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for Patent, and any and all Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; and any reissues, or reexaminations, or extensions of said Letters Patents.

I/We additionally authorize AVAGO to file applications in my/our name for Patent in any country, to be held and enjoyed by AVAGO, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Patent, to AVAGO, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to AVAGO, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Patents, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid AVAGO, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by AVAGO;

Combined Declaration/Assignment-Oct 2012

Page 1 of 2

PATENT REEL: 029599 FRAME: 0210 AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents, inventor's certificates, utility certificates, utility models, or certificates of addition on applications as aforesaid, to issue to AVAGO, as assignee of the entire right, title and interest, any and all Patents for said invention(s) or improvement(s), including any and all Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct AVAGO attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s):

		Given Name		Middle Name		Family Name		
Full Name of Sole or	First Inventor:	Marcin	Ka	mil	A	ugustyniak		
Residence:	Dr Heim St	eim Str. 18, Regensburg 93049, Germany						
Correspondence:	Same as ab							
N A.			Marie	07.01.20	13			
Inventor's Signature	J	Management of the second of th			ate			
mivernors orginatore		man and the second						
1.0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
		Given Name		Middle: Name		Family Name		
Full Name of # 2 Jo	int Inventor:	Aun	<u> Ch</u>	ioon		Chong		
Residence: 5	0B-15-05, U	Garden, PSR Minden 1, Gelugo	r, Penang `	11700, MY		and the second		
Correspondence:	ame as abov	é			***************************************			
	······································				Date	**************************************		
Inventor's Signature								
		Given Name		Middle Name		Family Name	*************	
Full Name of # 3 Jo	pint Inventor:	Kek		Leong		Yap		
Residence: A	B-2-1 Spring	field Condo, Lorong Kenarl, Sui	ngal Ara, B	ayan Lepas, Penang	g 11900	, MY		
Correspondence:	ame as above				4+44+ 4==========			
2	attre as above	**************************************						
					Date	A		
Inventor's Signature								
	ar e fair	Given Name		Middle Name	-	Family Name		
Full Name of # 4 J	oint Inventor:							
Residence:	11 99 11 11							
Correspondence:						allegonique va minimatical de constitución de la constitución de la constitución de la constitución de la const		
				***************************************	Date			
Inventor's Signature								
		Given Name		Middle Name		Family Name		
Full Name of # 5.	loint Inventor							
Residence:	JOHN 114011(01)	<u> Europeanorea de la constanta de la constanta</u>			**************************************			
Correspondence:								
							week the second	
					······	44.04.04.04.04.04.04.04.04.04.04.04.04.0		
inventor's Signature	9				Date			
Combined Declarate	ion/Assignment-	Oct						
2012			Page 2 of 2					

PATENT REEL: 029599 FRAME: 0211 AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents, inventor's certificates, utility certificates, utility models, or certificates of addition on applications as aforesaid, to issue to AVAGO, as assignee of the entire right, title and interest, any and all Patents for said invention(s) or improvement(s), including any and all Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct AVAGO attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s):

	Given Name	Middle Name	Family Name
ull Name of Sole on First In	ventor: Marcin	Kamil	Augustyniak
	eim Str. 18, Regensburg 93049, Gerr	nany	
orrespondence: Sami	e as aboye		
nventor's Signature	· .	Da	te
	Given Name	Middle Name	Family Name
full Name of # 2 Joint Inver	ntor: Aun	Choon	Chong
Residence: 50B-15-	05, U Garden, PSR Minden 1, Gelugo	or, Penang 11700, MY	
Correspondence: Same as	above		
ODA.		27.12-2	012
nventor's Signature		Da	tte
	Given Name	Middle Name	Family Name
full Name of # 3 Joint Inver	ntor: Kek	Leong	Yар
Residence: AB-2-1 S	pringfield Condo, Lorong Kenari, Su	ngal Ara, Bayan Lepas, Penang	11900, MY
correspondence: Same as:		A CONTRACTOR OF THE CONTRACTOR	
7M/2	nine antiquippe more television per more and a service of the serv	27/12/201	2.
nventor's Signature	eren er frien er en	De	ate .
	Given Name	Middle Name	Family Name
Full Name of # 4 Joint Inve			
Residence:			
Correspondence:		A CHILDREN TO THE CONTROL OF THE CON	
turantida Clanatura		Ď:	pte
inventor's Signature			
	Given Name	Middle Name	Family Name
Full Name of # 5 Joint Inve	ntor:	A second	
Résidence:			
Sørrespondence:			
The state of the s		in the second se	
Inventor's Signature		De	at o
Combined Declaration/Assign	ment-Cct		

Page 2 of 2

PATENT

REEL: 029599 FRAME: 0212

2012