PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

 SUBMISSION TYPE:
 NEW ASSIGNMENT

 NATURE OF CONVEYANCE:
 ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Mr. Saidan Saiful Bahari	06/30/2009
Mr. Tengku Norazman Bin Tengku Abd Aziz	06/30/2009

RECEIVING PARTY DATA

Name:	Avago Technologies ECBU 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:	12495786

CORRESPONDENCE DATA

Fax Number: (970)288-0617

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

Phone: 970 288 0731

Email: kathy.manke@avagotech.com

Correspondent Name: Kathy M. Manke
Address Line 1: 4380 Ziegler Road

Address Line 2: MS 76

Address Line 4: Fort Collins, COLORADO 80525

ATTORNEY DOCKET NUMBER: 2007-0079USORG

NAME OF SUBMITTER: Thomas F. Woods

Total Attachments: 2

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PATENT

ATTORNEY DOCKET NO. 2007-0079USORG

AVAGO TECHNOLOGIES, LTD. 4380 Ziegler Road Fort Collins, Colorado 80525 Attn: Kathy Manke, MS 76

ASSIGNMENT OF PATENT APPLICATION TO AVAGO TECHNOLOGIES ECBU IP (SINGAPORE) PTE. LTD.

I/We the undersigned (each) have agreed and hereby agree to assign to Avago Technologies ECBU IP (Singapore) Pte. Ltd. (Company Registration No. 200512325K), 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 Letters Patent of the United States entitled:

Miniaturized Single Track Optical Encoder System with Integrated Index Channel(s)				
Filing date:	30, 2009	Serial No.:	12/495,786	
and renewals of and	substitutes for said appl	ication for Letter	any and all continuations, continuations-in-part (C-I-P's), divisionals, s Patent, and any and all Letters Patent of the United States and of lerefor; and any reissues, or reexaminations, or extensions of said	
enjoyed by AVAGO, it Letters Patent respec	ts successors, assigns,	nominees or leg reissued or exte	ns in my/our name for Letters Patent in any country, to be held and al representatives, to the full end of the term or terms for which said nded, as fully and entirely as the same would have been held and made;	
executed and will not request is made, and to said invention(s) of legal representatives improvement(s), said and disclaimers which the expenses which AND I/we held for any country or country or country or country and all Letters F	t execute any agreement without undue delay, ex r improvement(s), said at and I/we agree to comile application and said Le visionals, continuations everything possible to aid rown benefit, proper pat may be incurred by me/except authorize and requirities foreign to the Unit of the entire right, title and	at in conflict here ecute and delive application and sumunicate to AVA otters Patents, to, C-I-P's, reissued AVAGO, its such that the Commissited States whosh dinterest, any ates which may be	o convey the entire interest herein assigned, and that I/we have not with, and I/we further covenant and agree that I/we will, each time at all such papers as may be necessary or desirable to perfect the title aid Letters Patent, to AVAGO, its successors, assigns, nominees or GO, or to its nominee, all known facts respecting said invention(s) or testify in any legal proceedings, to sign all lawful papers, to execute and foreign applications, to make all rightful oaths and declarations exessors, assigns, nominees and legal representatives to obtain and said invention(s) or improvement(s) in any and all countries provided the cooperation and assistance are paid by AVAGO; ioner of Patents and Trademarks of the United States and any official elegation in the desired patents on applications as aforesaid, to issue to add the terms Patent for said invention(s) or improvement(s), including elegation and granted on or as a result of the application aforesaid.	
identified by the attor	authorize and direct A ney docket number and t and Trademark Office.	title set forth abo	to insert the serial number and filing date of said application nov eve as soon as the same shall have been made known to them by the	
IN WITNES	S WHEREOF, I/we here	eunto set my/our	hand(s) and seal(s):	
Inventor's Signature (Se	est)		Date Assignment Signed: 01 dur 2007	
Inventor's Typed Name:	Saidan Saiful Bahari		Date Application Signed: 01 JUL X 09	
State of)) ss.:			
County of) 55			
Before me this known or proved to me o act and deed.	day ofday of on the basis of satisfactory ev	, personally apvidence to be the pe	peared who is personal rson who acknowledged the foregoing instrument of assignment to be his/her fre	

Notary Public PATENT
My commission expires:
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ASSIGNMENT OF PATENT APPLICATION (cont.)

punne		Date Assignment Signed: 01 July 2009
nventor's Signature (Sea	al)	
nventor's Typed Name:	Tengku Norazman Bin Tengku Abd Aziz	Date Application Signed: 01 July 2009
State of)	
County of) 8s.: \	
outly of	,	
Before me this nown or proved to me o	day of, personally appear in the basis of satisfactory evidence to be the person	red who is personally who acknowledged the foregoing instrument of assignment to be his/her
ree act and deed.		·
		Notary Public
	·	My commission expires:
		Date Assignment Signed:
nventor's Signature (Se	al)	Date / Addigninent Cigned.
Inventor's Typed Name:		Date Application Signed:
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oodiny or	,	
Before me this known or proved to me of free act and deed.	s day of, personally appea on the basis of satisfactory evidence to be the person	red who is personally who acknowledged the foregoing instrument of assignment to be his/her
		Notary Public My commission expires:
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Inventor's Signature (Se	pal)	
Inventor's Typed Name:		Date Application Signed:
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Before me thi known or proved to me free act and deed.	s day of, personally appear on the basis of satisfactory evidence to be the person	ared who is personally who acknowledged the foregoing instrument of assignment to be his/he

RECORDED: 06/30/2009

PATENT REEL: 022898 FRAME: 0441