

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT								
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT								
<b>CONVEYING PARTY DATA</b>									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mr. Kheng Hin Toh</td> <td>04/30/2008</td> </tr> <tr> <td>Mr. Gim Eng Chew</td> <td>04/30/2008</td> </tr> <tr> <td>Ms. Nanta Kumar Payandi</td> <td>04/30/2008</td> </tr> </tbody> </table>		Name	Execution Date	Mr. Kheng Hin Toh	04/30/2008	Mr. Gim Eng Chew	04/30/2008	Ms. Nanta Kumar Payandi	04/30/2008
Name	Execution Date								
Mr. Kheng Hin Toh	04/30/2008								
Mr. Gim Eng Chew	04/30/2008								
Ms. Nanta Kumar Payandi	04/30/2008								
<b>RECEIVING PARTY DATA</b>									
<b>Name:</b>	Avago Technologies ECBU 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>									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12112867</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12112867				
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Application Number:	12112867								
<b>CORRESPONDENCE DATA</b>									
<b>Fax Number:</b>	(970)288-0617								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
<b>Phone:</b>	(970) 288-0731								
<b>Email:</b>	kathy.manke@avagotech.com								
<b>Correspondent Name:</b>	Kathy M. Manke								
<b>Address Line 1:</b>	4380 Ziegler Road								
<b>Address Line 2:</b>	MS 76								
<b>Address Line 4:</b>	Fort Collins, COLORADO 80525								
<b>ATTORNEY DOCKET NUMBER:</b>	20070058USORG								
<b>NAME OF SUBMITTER:</b>	Thomas F. Woods								

CH \$40.00 12112867

Total Attachments: 2  
 source=Assignment Avago Technologies 20070058USORG P AVG 231 04 30 08#page1.tif

**PATENT**

**500527923**

**REEL: 020881 FRAME: 0827**



When recorded please return to:

PATENT APPLICATION

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

ATTORNEY DOCKET NO. 20070058USORG

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:

Optical Encoder with Amplitude Correction

Filing date: \_\_\_\_\_ Serial No.: \_\_\_\_\_

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 Letters Patent, and any and all Letters 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.

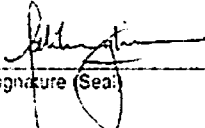
I/We additionally authorize AVAGO to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by AVAGO, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued 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 Letters 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 Letters 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;

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 on applications as aforesaid, to issue to AVAGO, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters 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 herunto set my/our hand(s) and seal(s):

  
\_\_\_\_\_  
Inventor's Signature (Seal)

Date Assignment Signed: 30/4/2008

Inventor's Typed Name: **Khong Hin Toh**

Date Application Signed: 30/4/2008

State of \_\_\_\_\_ )  
                                          ) ss.  
County of \_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared \_\_\_\_\_ who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

\_\_\_\_\_  
Notary Public  
My commission expires.

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

[Signature] \_\_\_\_\_ Date Assignment Signed: 30/4/2008

Inventor's Typed Name: Gim Eng Chew Date Application Signed: 30/4/2008

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:  
\_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared \_\_\_\_\_ who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

\_\_\_\_\_  
Notary Public  
My commission expires:

[Signature] \_\_\_\_\_ Date Assignment Signed: 30/4/2008

Inventor's Typed Name: Nanta-Kumar Payandi Date Application Signed: 30/4/2008

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:  
\_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared \_\_\_\_\_ who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

\_\_\_\_\_  
Notary Public  
My commission expires:

\_\_\_\_\_  
Inventor's Signature (Seal) Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: \_\_\_\_\_ Date Application Signed: \_\_\_\_\_

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:  
\_\_\_\_\_ )

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