

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>John Julius Asuncion</td><td>12/11/2008</td></tr><tr><td>Wai Keat Tai</td><td>12/11/2008</td></tr><tr><td>Shan Chong Tan</td><td>12/15/2008</td></tr><tr><td>Lian Chun Xu</td><td>12/11/2008</td></tr></tbody></table>	Name	Execution Date	John Julius Asuncion	12/11/2008	Wai Keat Tai	12/11/2008	Shan Chong Tan	12/15/2008	Lian Chun Xu	12/11/2008	
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John Julius Asuncion	12/11/2008										
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Shan Chong Tan	12/15/2008										
Lian Chun Xu	12/11/2008										
RECEIVING PARTY DATA											
Name:	Avago Technologies ECBU IP (Singapore) Pte. Ltd.										
Street Address:	No. 1 Yushun Avenue 7										
City:	Singapore										
State/Country:	SINGAPORE										
Postal Code:	768923										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12338898</td></tr></tbody></table>	Property Type	Number	Application Number:	12338898							
Property Type	Number										
Application Number:	12338898										
CORRESPONDENCE DATA											
Fax Number:	(970)288-0617										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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Address Line 4:	Fort Collins, COLORADO 80525										
ATTORNEY DOCKET NUMBER:	2008-029USORG										
NAME OF SUBMITTER:	Mark A. Wilson										
Total Attachments: 2 source=2008-029USORG_Executed_Assignment1#page1.tif											

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PATENT  
REEL: 022005 FRAME: 0013



When recorded please return to:

AVAGO TECHNOLOGIES, LTD.  
4380 Ziegler Road  
Fort Collins, Colorado 80525

PATENT APPLICATION

ATTORNEY DOCKET NO. 2008-029USORG

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:

**DETECTION OF AND RECOVERY FROM AN ELECTRICAL FAST TRANSIENT/BURST (EFT/B) ON A  
UNIVERSAL SERIAL BUS (USB) DEVICE**

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.

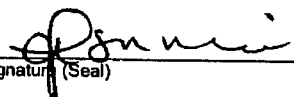
I/We additionally authorize AVAGO to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by AVAGO, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued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

  
Inventor's Signature (Seal)

Date Assignment Signed: 11/DEC/2008

Inventor's Typed Name: John Julius Asuncion

Date Application Signed: 11/DEC/2008

State of SINGAPORE )  
County of SINGAPORE ) 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: \_\_\_\_\_

ASSIGNMENT OF PATENT APPLICATION (cont.)

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

Inventor's Signature (Seal)

Date Assignment Signed: 11/DEC/2008

Inventor's Typed Name: Wai Keat Tai

Date Application Signed: 11/DEC/2008State of SINGAPORE )  
County of SINGAPORE ) 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: 15/DEC/2008

Inventor's Typed Name: Shan Chong Tan

Date Application Signed: 15/DEC/2008State of PENANG )  
County of MALAYSIA ) 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: Dec 11, 2008

Inventor's Typed Name: Lian Chun Xu

Date Application Signed: Dec 11, 2008State of SINGAPORE )  
County of SINGAPORE ) 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: