

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Cheng Why Tan</td><td>02/28/2006</td></tr><tr><td>Yee Loong Chin</td><td>03/02/2006</td></tr></tbody></table>		Name	Execution Date	Cheng Why Tan	02/28/2006	Yee Loong Chin	03/02/2006
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Cheng Why Tan	02/28/2006						
Yee Loong Chin	03/02/2006						
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							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11370133</td></tr></tbody></table>		Property Type	Number	Application Number:	11370133		
Property Type	Number						
Application Number:	11370133						
CORRESPONDENCE DATA							
Fax Number:	(303)297-2266						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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ATTORNEY DOCKET NUMBER:	70051564-1						
NAME OF SUBMITTER:	Joy Reinhart						
Total Attachments: 2 source=70051564-1#page1.tif source=70051564-1#page2.tif							

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PATENT
REEL: 018651 FRAME: 0092

When recorded please return to:
AVAGO TECHNOLOGIES, LTD.
P.O. Box 1920
Denver, Colorado 80201-1920

ATTORNEY DOCKET NO. 70051564

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 8 Cross Street, #11-00 PWC Building, Singapore 048424 (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:

REFLECTIVE ENCODER WITH INTERCHANGABLE LENS ON EMITTER-DETECTOR MODULE

Filing date: March 6, 2006

Serial No. 11/370,133

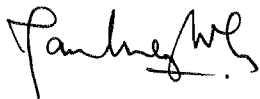
and the invention(s) and improvements(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; and any reissues, or reexaminations, or extensions of said Letters Patent.

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 Patent, 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 improvements(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's 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.



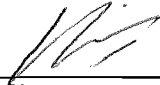
Inventor's Signature

Inventor's Typed Name: Cheng Why Tan

Date Assignment Signed: Feb 28, 2006

Date Application Signed: Feb 28, 2006

ASSIGNMENT OF PATENT APPLICATION (cont.)



Inventor's Signature
Inventor's Typed Name: Yee Loong Chin

Date Assignment Signed: 2 March 2006
Date Application Signed: 2 March 2006

Inventor's Signature
Inventor's Typed Name:

Date Assignment Signed: _____
Date Application Signed: _____

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