12547354

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PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Thomas Murphy	07/28/2009
Kevin Rathburn	07/28/2009
Keen Hun Leong	07/28/2009

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:	12547354	

CORRESPONDENCE DATA

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Email: avagoip@system.foundationip.com

Correspondent Name: Kathy Manke Avago Technologies Limited

Address Line 1: 4380 Ziegler Road

Address Line 4: Fort Collins, COLORADO 80525

ATTORNEY DOCKET NUMBER:	2009-048USORG
NAME OF SUBMITTER:	Thomas F. Woods

Total Attachments: 2

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REEL: 023144 FRAME: 0613

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PATENT APPLICATION

When recorded please return to:

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

ATTORNEY DOCKET NO. 2009-048USORG

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 obtigations 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:

Method and Apparatus for Detecting Defective Traces in a Mutual Capacitance Touch Sensing Device

Filing date: Avg. 25, 2004 Serial No.: 12/547.354
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 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 an enjoyed by AVAGO, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which sai Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held an 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 no executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the tit 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) of improvement(s), said application and said Letters Patents, to testify in any legal proceeding, to sign all lawful papers, to execut all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declaration; and generally to do everything possible to aid AVAGO, its successors, assigns, nominees and legal representatives to obtain an enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provide 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 offici of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue AVAGO, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), includir any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesal 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 no 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):
Thomas Inventor's Signature (Seal) Date Assignment Signed: July 28 2009
Inventor's Typed Name: Thomas Murphy Date Application Signed: Quly 28, 2 coq
State of)
) ss.: County of)
Before me thisday of, personally appeared who is personal 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 fixed and deed.

Notary Public My commission expires:

Page 1 of 2

ATTORNEY DOCKET NO. 2009-048USORG

	ASSIGNMENT OF F	PATENT APPLICATION (cont.)
IN WITNESS WHEREOF	Mye hereunts set mylour han	nd(s) and seal(s):
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Inventor's Signature (Seal)	alle	Data Assignment Signed:
		_
Inventor's Typed Name: K6Vin	Rathbum	Date Application Signed: /- 28 2009
State of		
) ma.:	
County of	,	•
Before me this known or proved to me on the b	day of, personal sale of salisfactory evidence to be the	lly appeared who is personally a person who acknowledged the foregoing instrument of assignment to be his/her
free act and deed.		a her corr with detraction of the stractioned sustainment or detailment to be usage
		Notary Public
		My commission appires:
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	似以	JULY 20 2009
Inventor's Signature (Sout)	4.0	Dete Assignment Signed: JULY 39, 2009
manim a collusiona (som)		
Inventor's Typed Name: Keen		Date Application Stoned JULY 19, 2009
	run Leong	Dela Application Signed:
State of	1	
County of	386.:	
Before me this	day of persons	Who is personally
known or proved to me on the bites act and deed.	asis of satisfactory evidence to be th	to person who acknowledged the foregoing instrument of assignment to be higher
		Notery Public
		My commission contres:
Inventor's Signature (Seel)		Data Assignment Signed:
Inventor's Typed Name:		Date Application Signed:
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free act and deed.	rante en escribicionà dividende tó de Q	ne person who acknowledged the foregoing instrument of easignment to be his/he
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RECORDED: 08/25/2009