

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7945939

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
IAN HARDCASTLE	12/20/2006
CAROL T. SCHEMBRI	01/02/2007
JOHN FRANCIS PETRILLA	12/20/2006
RENE P. HELBING	01/03/2007
DANIEL B. ROITMAN	01/08/2007
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AVAGO TECHNOLOGIES GENERAL 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>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17121084
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(949)760-9502
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	949-760-0404
<b>Email:</b>	efiling@knobbe.com
<b>Correspondent Name:</b>	KNOBBE MARTENS OLSON & BEAR LLP
<b>Address Line 1:</b>	2040 MAIN STREET
<b>Address Line 2:</b>	14TH FLOOR
<b>Address Line 4:</b>	IRVINE, CALIFORNIA 92614
<b>ATTORNEY DOCKET NUMBER:</b>	BDALV.016C2
<b>NAME OF SUBMITTER:</b>	ROBERT HILTON
<b>SIGNATURE:</b>	/Robert Hilton/
<b>DATE SIGNED:</b>	05/10/2023
<b>Total Attachments: 5</b>	

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

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 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:

**MULTIPLE ANALYTE DETECTION SYSTEMS AND METHODS OF DETECTING MULTIPLE ANALYTES**

Filing date: 1/16/07 Serial No.: 11/653,568

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 attorneydocket 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: 061220

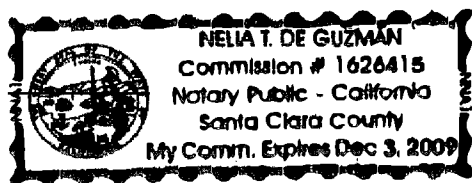
Inventor's Typed Name: Ian Hardcastle

Date Application Signed: 061220

State of California )  
County of Santa Clara ) ss.:

Before me this 20th day of Dec., 2006, personally appeared Ian Hardcastle 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: Dec. 3, 2009



ASSIGNMENT OF PATENT APPLICATION(cont.)

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

Carol T. Schembri  
Inventor's Signature (Seal)

Date Assignment Signed: 1-2-07

Inventor's Typed Name: Carol T. Schembri

Date Application Signed: 1-02-07

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: John Francis Petrilla

Date Application Signed: \_\_\_\_\_

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: Rene P. Helbing

Date Application Signed: \_\_\_\_\_

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:

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: \_\_\_\_\_

Inventor's Typed Name: Carol T. Schembri

Date Application Signed: \_\_\_\_\_

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)

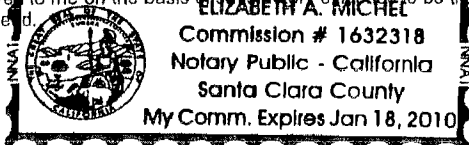
Date Assignment Signed: 20 DEC. 2006

Inventor's Typed Name: John Francis Petrilla

Date Application Signed: 20 DEC. 2006

State of California }  
County of Santa Clara } ss.:

Before me this 20th day of December, 2006, personally appeared JOHN F. PETRILLA 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 ELIZABETH A. MICHEL  
My commission expires: January 18, 2010

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

Date Assignment Signed: \_\_\_\_\_

Inventor's Typed Name: Rene P. Helbing

Date Application Signed: \_\_\_\_\_

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:

### 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: \_\_\_\_\_

Inventor's Typed Name: Carol T. Schernbri Date Application Signed: \_\_\_\_\_

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: John Francis Petrilla Date Application Signed: \_\_\_\_\_

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: 1/3/07

Inventor's Typed Name: Rene P. Helbing
 Date Application Signed: 11/3/02

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:**

## 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:

01-08-07

Inventor's Typed Name: Daniel B. Roltman

Date Application Signed:

01-08-07

State of CALIFORNIA )  
County of SAN MATEO ) ss.:

Before me this 07<sup>th</sup> day of JAN 2007, personally appeared DANIEL B. ROLTMAN 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:

7/1/09

Inventor's Signature (Seal)

Date Assignment Signed:

Inventor's Typed Name:

Date Application Signed:

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.:

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: