

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM452000

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
TRIPLE RING TECHNOLOGIES, INC.		11/21/2017	Corporation: CALIFORNIA
RECEIVING PARTY DATA			
Name:	WESTERN ALLIANCE BANK		
Street Address:	55 ALMADEN BLVD., SUITE 100		
City:	SAN JOSE		
State/Country:	CALIFORNIA		
Postal Code:	95113		
Entity Type:	Corporation: ARIZONA		
PROPERTY NUMBERS Total: 2			
Property Type	Number	Word Mark	
Serial Number:	86820253	TRIPLE RING TECHNOLOGIES	
Registration Number:	3210696	TRIPLE RING TECHNOLOGIES	
CORRESPONDENCE DATA			
Fax Number:	6502825598		
<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>			
Phone:	6506483802		
Email:	PATTY@PATTYCHENG.COM		
Correspondent Name:	PATTY CHENG		
Address Line 1:	2625 Middlefield Rd., #215		
Address Line 4:	Palo Alto, CALIFORNIA 94306		
NAME OF SUBMITTER:	Patty Cheng		
SIGNATURE:	/s/ Patty Cheng		
DATE SIGNED:	11/22/2017		
Total Attachments: 7			
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AMENDED AND RESTATED INTELLECTUAL PROPERTY SECURITY AGREEMENT

This AMENDED AND RESTATED INTELLECTUAL PROPERTY SECURITY AGREEMENT, dated as of November 21, 2017 (the "Agreement") between TRIPLE RING TECHNOLOGIES, INC., a California corporation ("Grantor") and WESTERN ALLIANCE BANK, an Arizona corporation and successor in interest to Bridge Bank, National Association ("Lender") is made with reference to the Loan and Security Agreement, dated as of August 11, 2014 (as amended from time to time, the "Loan Agreement"), between Lender and Grantor, and that certain Intellectual Property Security Agreement between Grantor and Lender dated as of August 11, 2014 (the "Original IPSA"). Terms defined in the Loan Agreement have the same meaning when used in this Agreement. This Agreement hereby amends and restates, without novation, the Original IPSA.

For good and valuable consideration, receipt of which is hereby acknowledged, Grantor hereby covenants and agrees as follows:

To secure the Obligations under the Loan Agreement, Grantor grants to Lender a security interest in all right, title, and interest of Grantor in any of the following, whether now existing or hereafter acquired or created in any and all of the following property, subject to the terms of Loan Agreement (collectively, the "Intellectual Property Collateral"):

(a) copyright rights, copyright applications, copyright registrations and like protections in each work of authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held (collectively, the "Copyrights"), including the Copyrights described in Exhibit A;

(b) trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks (collectively, the "Trademarks"), including the Trademarks described in Exhibit B;

(c) patents, patent applications and like protections including without limitation improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same (collectively, the "Patents"), including the Patents described in Exhibit C;

(d) mask work or similar rights available for the protection of semiconductor chips or other products (collectively, the "Mask Works");

(e) trade secrets, and any and all intellectual property rights in computer software and computer software products;

(f) design rights;

(g) claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works, and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(i) amendments, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

The rights and remedies of Lender with respect to the security interests granted hereunder are in addition to those set forth in the Loan Agreement, and those which are now or hereafter available to Lender as a matter of law or equity. Each right, power and remedy of Lender provided for herein or in the Loan Agreement, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein, and the exercise by Lender of any one or more of such rights, powers or remedies does not preclude the simultaneous or later exercise by Lender of any other rights, powers or remedies.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

GRANTOR:

TRIPLE RING TECHNOLOGIES, INC.

By: _____

Name: _____

Title: _____

Address for Notices:

39655 Eureka Drive

Newark, CA 94560

Attn: Joseph Heanue, President and CEO

Fax: _____

LENDER:

WESTERN ALLIANCE BANK

By: _____

Name: _____

Title: _____

Address for Notices:

55 Almaden Boulevard, Suite 100

San Jose, California 95113

Attn: Note Department

Fax: (408) 282-1681

IN WITNESS WHEREOF, the parties have executed this Agreement as of the date first written above.

GRANTOR:

TRIPLE RING TECHNOLOGIES, INC.

By: _____

Name: _____

Title: _____

Address for Notices:

39655 Eureka Drive

Newark, CA 94560

Attn: Joseph Heanue, President and CEO

Fax: _____

LENDER:

WESTERN ALLIANCE BANK

By: _____

Name: _____

Title: _____

Address for Notices:

55 Almaden Boulevard, Suite 100

San Jose, California 95113

Attn: Note Department

Fax: (408) 282-1681

EXHIBIT A

COPYRIGHTS

Please Check if No Copyrights Exist

<u>Type of Work:</u>	<u>Title:</u>	<u>International Standard Serial Number (ISSN):</u>	<u>Registration Number:</u>	<u>Filing Date:</u>	<u>Pre-registered?</u>

EXHIBIT B
TRADEMARKS

Please Check if No Trademarks Exist

<u>Mark / Title:</u>	<u>U.S. Serial Number:</u>	<u>U.S. Registration Number:</u>	<u>Filing/Registration Date:</u>
TRIPLE RING TECHNOLOGIES	86820253		Nov. 13, 2015
TRIPLE RING TECHNOLOGIES	78751172	3210696	Feb. 20, 2007*

*Indicates dead, abandoned or cancelled trademark

EXHIBIT C

PATENTS

<u>Application</u>	<u>Patent</u>	<u>Earliest Publication</u>	<u>Attorney Docket No.</u>	<u>Status Date</u>	<u>Filing or 371(c) Date</u>
14/324,123	9,014,328	-	TRT-7-C1	07-18-2014	07-04-2014
14/170,478	-	US 2014-0205067 A1	TRT-9-C1	05-06-2014	01-31-2014
14/084,544	8,848,862	US 2014-0079181 A1	TRT-1A-C1	05-27-2014	11-19-2013
13/931,553	-	-	TRT-13	12-11-2013	06-28-2013
13/928,255	-	US 2013-0287177 A1	TRT-15	08-08-2013	06-26-2013
13/896,208	9,036,770	-	TRT-12	02-06-2014	05-16-2013
13/722,947	9,001,962	US 2014-0177785 A1	TRT-14	05-13-2014	12-20-2012
13/567,889	8,908,828	US 2014-0037068 A1	TRT-11	08-06-2014	08-06-2012
13/538,212	-	US 2013-0003931 A1	TRT-8	06-06-2013	06-29-2012
13/440,394	8,774,351	US 2012-0257710 A1	TRT-7	06-18-2014	04-05-2012
13/367,309	-	US 2012-0203114 A1	TRT-6	04-25-2014	02-06-2012
13/364,088	-	US 2012-0130257 A1	TRT-5	11-08-2013	02-01-2012
13/304,030	8,848,867	US 2012-0134469 A1	TRT-4	05-30-2014	11-23-2011
13/291,804	-	US 2013-0114796 A1	TRT-10	06-23-2014	11-08-2011
13/279,208	8,644,452	US 2012-0093293 A1	TRT-9	01-15-2014	10-21-2011
13/184,482	-	US 2012-0014501 A1	TRT-2	04-08-2014	07-15-2011
13/052,024	8,594,272	US 2011-0228899 A1	TRT-1A	11-06-2013	03-18-2011
13/052,020	8,509,380	US 2011-0228898 A1	TRT-1	07-24-2013	03-18-2011
12/852,657	8,520,800	US 2012-0033790 A1	TRT-3	08-07-2013	08-09-2010
12/251,298	8,050,384	US 2009-0154646 A1	054846/362425	10-12-2011	10-14-2008
11190702.8 (EPO)			TRT1-0001.EP		
14/562,665	9,387,049	US 2015-0087971 A1			December 6, 2014
14/670,253		US 2015-0196261 A1			July 16, 2015
14/690,217	9,259,194	US 2015-0216488 A1			April 17, 2015
14/496,346	9,254,114	US 2015-0055751 A1			February 26, 2015
14/498,967	9,107,642	US 2015-0049855 A1			September 25, 2014
14/714,083	9,188,549	US 2015-0247810 A1			May 15, 2015
14/927,246	9,439,612	US 2016-0045175 A1			October 29, 2015
14/943,011	9,476,845	US 2016-0069823 A1			November 16, 2015
14/885,166		US 2016-0106387 A1			October 16, 2015
15/018,792	9,554,767	US 2016-0166225 A1			February 8, 2016

15/252,143	9,767,935	US 2016-0372227 A1			August 30, 2016
15/333,113	9,784,696	US 2017-0045464 A1			October 24, 2016
15/420,050		US 2017-0135666 A1			January 30, 2017
15/382,536		US 2017-0177763 A1			December 16, 2016
12/708,579	8,204,174	US 2010-0310046 A1			February 19, 2010
12/793,228	8,315,358	US 2010-0310047 A1			June 3, 2010