

900374222 08/09/2016

**TRADEMARK ASSIGNMENT COVER SHEET**

Electronic Version v1.1  
 Stylesheet Version v1.2

ETAS ID: TM394431

<b>SUBMISSION TYPE:</b>		NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>		ASSIGNMENT OF THE ENTIRE INTEREST AND THE GOODWILL	
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
BINOPTICS, LLC		12/09/2015	Corporation: DELAWARE <i>LLC RW 8-15-16</i>
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	M/A-COM Technology Solutions Holdings, Inc.		
<b>Street Address:</b>	100 Chelmsford Street		
<b>City:</b>	Lowell		
<b>State/Country:</b>	MASSACHUSETTS		
<b>Postal Code:</b>	01851		
<b>Entity Type:</b>	Corporation: DELAWARE		
<b>PROPERTY NUMBERS Total: 2</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
Registration Number:	2732958	BINOPTICS	
Registration Number:	2784703	PIONEERING MICROPHOTONICS	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>			
<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>	9495793673		
<b>Email:</b>	rob.winder@macom.com		
<b>Correspondent Name:</b>	Rob Winder		
<b>Address Line 1:</b>	4000 MacArthur Blvd		
<b>Address Line 4:</b>	Newport Beach, CALIFORNIA 92660		
<b>NAME OF SUBMITTER:</b>	Rob Winder		
<b>SIGNATURE:</b>	/rob winder/		
<b>DATE SIGNED:</b>	08/09/2016		
<b>Total Attachments: 4</b>			
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**ASSIGNMENT OF PATENT RIGHTS**

For good and valuable consideration, the receipt of which is hereby acknowledged, BINOPTICS, LLC, a Delaware corporation, having offices at 100 Chelmsford Street, Lowell, Massachusetts 01851, U.S.A. (“Assignor”), does hereby irrevocably sell, assign, transfer, and convey to M/A-COM TECHNOLOGY SOLUTIONS HOLDINGS, INC., a Delaware corporation, with offices at 100 Chelmsford Street, Lowell, Massachusetts 01851, U.S.A. (“Assignee”), or its designees, all of Assignor’s right, title and interest that exist today and may exist in the future in and to any and all of the following:

(a) the patents, patent applications and trademark registrations listed in Exhibit A;


(b) entire right, title and interest in and to said patents, patent applications, trademarks listed on Exhibit A, including all corresponding applications such as continuation, continuations-in-part, divisionals, provisionals, reissues, reexaminations thereof and the subject matter of any and all claims which may be obtained in every such patent, as well as all corresponding foreign patents, foreign patent applications, foreign trademark registrations, foreign trademark applications in whatever jurisdictions in which the same exist along with all rights of priority and the right to file applications for patents, trademarks based thereon and to prosecute such applications and receive patents, trademark registrations thereon in its own name, all of the same to be held and enjoyed by the said Assignee, its successors, assigns or other legal representatives, for its own use and advantage, and for the use and advantage of its successors, assigns or legal representatives, to the end of the term or terms for which patents, trademark registrations are or may be granted, re-issued or re-examined, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment not been made, including all rights to profits and damage by reason of past infringement by any party or parties, with the right to sue and collect the same for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives.

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction, including the Commissioner for Patents in the United States Patent and Trademark Office, to record and register this Assignment of Patent Rights upon request by Assignee, and to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Lowell, Massachusetts on December 9, 2015.

**ASSIGNOR:**

**BINOPTICS, LLC**

By:   
Name: Clay Simpson  
Title: Vice President

**Exhibit A**

<b>Patent Application Date</b>	<b>Patent Application No.</b>	<b>Grant Date</b>	<b>Grant No.</b>
Aug-01-2001	09/918,544	Jan-20-2004	6,680,961
Sep-19-2001	09/955,123	Nov-25-2003	6,653,244
Aug-23-2002	10/226'076	Sep-14-2004	6,792,025
Dec-23-2002	10/326'084	Sep-14-2004	6,790,689
Jul-16-2003	10/619,434	May-09-2006	7,042,630
Jul-17-2003	10/620,348	Mar-14-2006	7,012,291
Mar-18-2004	10/802,734	Oct-19-2010	7,817,702
Aug-31-2004	10/929,718	Nov-16-2010	7,835,415
Oct-14-2004	10/963,739	Jul-17-2007	7,245,645
Jan-19-2005	11/037,334	Aug-04-2009	7,569,860
Apr-15-2005	11/105 552	Feb-02-2010	7,656,922
Jan-05-2006	11/325,325	Oct-06-2009	7,598,527
Feb-17-2006	11/356,203	Jul-22-2014	8,787,419

Patent Application Date	Patent Application No.	Grant Date	Grant No.
Jun-01-2006	11/444,414	Jun-07-2011	7,957,445
Jun-20-2006	11/455,636	Mar-06-2012	8,130,806
Aug-02-2006	11/497,234	Sep-21-2010	7,799,587
Aug-24-2006	11/509,015	Aug-05-2008	7,408,183
Dec-26-2006	11/644,828	Oct-20-2009	7,606,277
Jul-18-2007	11/826,809	Jun-02-2009	7,542,497
Mar-05-2008	12/043,131	Mar-09-2010	7,675,957
Jul-10-2008	12/171,286	Nov-09-2010	7,830,939
Sep-11-2008	12/208,988	Sep-06-2001	8,014,434
Sep-25-2009	12/567,448	Aug-30-2011	8,009,711
Dec-15-2009	12/637,959	Oct-16-2012	8,290,012
Dec-17-2009	12/641,023	Jul-05-2011	7,972,879
Dec-17-2009	12/641,053	Nov-06-2012	8,306,087
Mar-17-2010	12/725 894	Nov-22-2011	8,064,493
Oct-01-2010	12/895,979	Nov-18-2014	8,891,576
Oct-20-2010	12/908,592	Apr-17-2012	8,160,114

Patent Application Date	Patent Application No.	Grant Date	Grant No.
Jun-06-2011	13/154,097	Aug-21-2012	8,249,122
Oct-14-2011	13/273,421	Apr-16-2013	8,419,956
Oct-25-2011	13/281,408	Dec-10-2013	8,605,767
Feb-15-2012	13/397,612	Oct-16-2012	8,290,013
Feb-15-2012	13/397,595	Nov-06-2012	8,306,086
Nov-30-2012	13/690,792	Jan-13-2015	8,934,512
May-07-2013	13/889,207	Pending	TBA
Jun-04-2014	14/296,139	Pending	TBA
Jun-04-2014	14/296,144	Pending	TBA
Jun-04-2014	14/296,162	Pending	TBA
Jun-04-2014	14/296,180	Pending	TBA
Oct-30-2014	14/528,450	Pending	TBA
Nov-07-2014	14/535,590	Pending	TBA
Jan-13-2015	14/595,848	Pending	TBA

Trademark Name	Application Date	Application No.	Registration Date	Registration No.
BINOPTICS	Jun-06-2001	76277083	Jul-01-2003	2732958
PIONEERING MICROPHOTONICS	Jun-05-2001	76266794	Nov-18-2003	2784703