

## 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>PATRICK J. TURNER</td> <td>06/21/2013</td> </tr> <tr> <td>RICHARD N. SILVER</td> <td>06/25/2013</td> </tr> <tr> <td>BALAM QUITZE ANDRES WILLEMSSEN CORTES</td> <td>06/26/2013</td> </tr> <tr> <td>KURT F. RAIHN</td> <td>06/21/2013</td> </tr> <tr> <td>NEAL O. FENZI</td> <td>06/21/2013</td> </tr> <tr> <td>ROBERT B. HAMMOND</td> <td>06/21/2013</td> </tr> </tbody> </table>		Name	Execution Date	PATRICK J. TURNER	06/21/2013	RICHARD N. SILVER	06/25/2013	BALAM QUITZE ANDRES WILLEMSSEN CORTES	06/26/2013	KURT F. RAIHN	06/21/2013	NEAL O. FENZI	06/21/2013	ROBERT B. HAMMOND	06/21/2013
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<table border="1"> <tr> <td>Name:</td> <td>RESONANT LLC, a California limited liability company</td> </tr> <tr> <td>Street Address:</td> <td>460 Ward Drive</td> </tr> <tr> <td>Internal Address:</td> <td>Suite F</td> </tr> <tr> <td>City:</td> <td>Santa Barbara</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>93109</td> </tr> </table>		Name:	RESONANT LLC, a California limited liability company	Street Address:	460 Ward Drive	Internal Address:	Suite F	City:	Santa Barbara	State/Country:	CALIFORNIA	Postal Code:	93109		
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PROPERTY NUMBERS Total: 1															
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Application Number:	13838943														
CORRESPONDENCE DATA															
Fax Number:	2134306407														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone:	949-760-9600														
Email:	scarr@omm.com														
Correspondent Name:	O'Melveny & Myers LLP IP&T Calendar Dep														
Address Line 1:	400 South Hope Street														
Address Line 4:	Los Angeles, CALIFORNIA 90071-2899														
ATTORNEY DOCKET NUMBER:	705,824-001														

CH \$40.00 13838943

NAME OF SUBMITTER:	David B. Murphy, Reg 31,125
Signature:	/davidmurphy/
Date:	08/20/2013
Total Attachments: 5 source=-001assign#page1.tif source=-001assign#page2.tif source=-001assign#page3.tif source=-001assign#page4.tif source=-001assign#page5.tif	

**ASSIGNMENT OF PATENT APPLICATION**

WHEREAS, WE, **PATRICK J. TURNER**, a citizen of Canada, residing at 111 N. Salinas Street, Santa Barbara, California 93103; **RICHARD N. SILVER**, a citizen of USA, residing at 369 Pacheco Street, San Francisco, California 94116; **BALAM QUITZÉ ANDRÉS WILLEMSSEN CORTÉS**, a citizen of USA, residing at 1009 Massachusetts Avenue, Lexington, Massachusetts 02420; **KURT F. RAIHN**, a citizen of USA, residing at 487 Cannon Green Drive, Goleta, California 93117; **NEAL O. FENZI**, a citizen of USA, residing at 650 Burtis Street, Santa Barbara, California 93111; and **ROBERT B. HAMMOND**, a citizen of USA, residing at 3245 Campanil Drive, Santa Barbara, California 93109 (hereinafter referred to as “**ASSIGNOR**”), has invented **NETWORK SYNTHESIS DESIGN OF MICROWAVE ACOUSTIC WAVE FILTERS**, for which application for Letters Patent of the United States of America was filed on **March 15, 2013**, and assigned U.S. Application No. **13/838,943**; and

WHEREAS, the **RESONANT LLC**, a limited liability company, organized and existing under and by virtue of the laws of the state of California and having its principal place of business at 460 Ward Drive, Suite F, Santa Barbara, California 93111-4437 (hereinafter referred to as “**ASSIGNEE**”), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

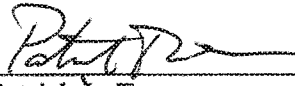
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, **ASSIGNOR** hereby sells, assigns, transfers and sets over unto the said **ASSIGNEE**,

its successors and assigns, the full and exclusive right, title and interest to said invention and to all Letters Patent or application or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto, to be obtained for said invention by said application, and to any continuation, continuation-in-part, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under the International Convention; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent or any legal equivalent thereof to said ASSIGNEE, its successors and assigns, in accordance with this Assignment.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Agreement;


ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention, and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents in the United States or in any foreign country, which may be necessary or desirable to carry out the purposes thereof.

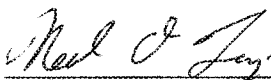
IN WITNESS WHEREOF, the ASSIGNOR has executed this Assignment at:

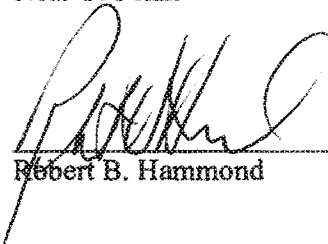
Santa Barbara, CA  6/21/13  
(City/State) Patrick L. Turner Date

\_\_\_\_\_  
(City/State) Richard N. Silver Date

\_\_\_\_\_  
(City/State) Balam Quitzé Andrés Willemsen  
Cortés Date

Santa Barbara, CA  6/21/13  
(City/State) Kurt F. Raihn Date

Santa Barbara, CA  6/21/13  
(City/State) Neal O. Fenzi Date

Santa Barbara, CA  6/21/13  
(City/State) Robert B. Hammond Date

IN WITNESS WHEREOF, the ASSIGNOR has executed this Assignment at:

\_\_\_\_\_  
(City/State) Patrick L. Turner Date

St. Louis, MO  
(City/State) Richard N. Silver Date 6/25/13

\_\_\_\_\_  
(City/State) Balam Quitzé Andrés Willemsen Cortés Date

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FORM 101 (1-1-00)

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(City/State) Richard N. Silver Date

LEYINGTON, MA \_\_\_\_\_  
(City/State) *BW Menser* Date 6/26/2013  
Balam Quinte Andres Wilmsen  
Cortés

\_\_\_\_\_  
(City/State) Kurt F. Raiha Date

\_\_\_\_\_  
(City/State) Neal O. Fenzi Date

\_\_\_\_\_  
(City/State) Robert B. Hammond Date