

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4858202

| | | |
|---|------------------------------------|-----------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | RESONANT LLC | 12/11/2014 |
| RECEIVING PARTY DATA | | |
| Name: | RESONANT INC. | |
| Street Address: | 110 CASTILIAN DRIVE, SUITE 100 | |
| City: | SANTA BARBARA | |
| State/Country: | CALIFORNIA | |
| Postal Code: | 93117 | |
| PROPERTY NUMBERS Total: 2 | | |
| Property Type | Number | |
| Application Number: | 15179906 | |
| Application Number: | 14484806 | |
| CORRESPONDENCE DATA | | |
| Fax Number: | (805)230-1355 | |
| <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: | 8052301350 | |
| Email: | elisham@socalip.com | |
| Correspondent Name: | SOCAL IP LAW GROUP LLP | |
| Address Line 1: | 310 N. WESTLAKE BLVD., SUITE 120 | |
| Address Line 4: | WESTLAKE VILLAGE, CALIFORNIA 91362 | |
| ATTORNEY DOCKET NUMBER: | R039.P18138-3 | |
| NAME OF SUBMITTER: | ELISHA MANZUR | |
| SIGNATURE: | /Elisha Manzur/ | |
| DATE SIGNED: | 03/08/2018 | |
| Total Attachments: 7 | | |
| source=assignment-resllcTOresinc#page1.tif | | |
| source=assignment-resllcTOresinc#page2.tif | | |
| source=assignment-resllcTOresinc#page3.tif | | |
| source=assignment-resllcTOresinc#page4.tif | | |
| source=assignment-resllcTOresinc#page5.tif | | |

source=assignment-resllcTOresinc#page6.tif

source=assignment-resllcTOresinc#page7.tif

PATENT ASSIGNMENT

This Patent Assignment (the "Assignment") is made and entered into by and between **RESONANT LLC**, a company organized and existing under and by virtue of the laws of the state of California, (hereinafter referred to as "ASSIGNOR") and **RESONANT INC.**, a company organized and existing under and by virtue of the laws of the state of Delaware and having its principal place of business at 110 Castilian Drive, Suite 100, Santa Barbara, CA 93117 (hereinafter referred to as "ASSIGNEE").

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the parties hereto agree as follows:

- 1) the ASSIGNOR hereby sells, assigns, transfers and sets over unto the said ASSIGNEE (i) all right, title and interest in and to the patents and applications listed on EXHIBIT A ("Assigned patents"), with the right to file, and all right title and interest in, divisionals, continuations, continuations-in-part, substitute, continued prosecution, request for continued examination, renewals, reexaminations and reissues of the Assigned Patents, including but not limited to the right to file, prosecute and issue patent applications and patents claiming priority to the Assigned Patents; and (ii) all past, present and future claims against any person with respect to the Assigned Patents, and all rights to recover past, present and future damages and remedies for the infringement or misappropriation of the Assigned Patents ("Assigned Claims"), with all of the foregoing hereinafter collectively referred to as "Assigned Patent rights".
- 2) The foregoing assignment of rights, title, and interest is not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for the

Assigned Patents, and to any continuation, 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 any international conventions or treaties; and ASSIGNOR hereby authorizes and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents or any legal equivalent thereof, to issue the Assigned Patents to ASSIGNEE, its successors and assigns, in accordance with this Assignment.

- 3) The ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with the Agreement; the ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said patents 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 patents and said equivalents in the United States or in any foreign country, which may be necessary or desirable to carry out the purposes thereof.

- 4) This Assignment shall be governed by the laws of the State of California.

RESONANT LLC

Date: 12/11/14

Signature: 

By: Terry Lingren
Title: Chief Executive Officer
110 Castilian Drive, Suite 100
Santa Barbara, CA 93117

EXHIBIT A

| Title/Docket No.: | Juris. | Serial No./ Patent No.: | Filing Date: |
|--|--------|----------------------------|--------------|
| LOW NOISE AMPLIFIER | US | 5,488,382 | 05/10/1995 |
| HIGH TEMPERATURE SUPERCONDUCTOR LUMPED ELEMENT BAND-REJECT FILTERS | US | 5,616,539 | 08/26/1994 |
| HIG TEMPERATURE SUPERCONDUCTOR LUMPED ELEMENTS AND CIRCUIT THEREFROM | US | 5,618,777 | 05/28/1993 |
| ELEMENT REMOVAL DESIGN IN MICROWAVE FILTERS (Docket No. RES-014) | US | 61/802,114 | 03/15/2013 |
| ELEMENT REMOVAL DESIGN IN MICROWAVE FILTERS (Docket No. RES-014US) | US | 13/939,763 | 07/11/2013 |
| ELEMENT REMOVAL DESIGN IN MICROWAVE FILTERS (Docket No. RES-014CON) | US | 14/300,124 | 06/09/2014 |
| ELEMENT REMOVAL DESIGN IN MICROWAVE FILTERS (Docket No. RES-014WO01) | PCT | PCT/US14/19106 | 02/27/2014 |
| IMAGE METHOD FOR FILTER DESIGN (Docket No. RES-017PRV) | US | 61/798,482 | 3/15/2013 |
| MICROWAVE ACOUSTIC WAVE FILTERS (Docket No. RES-017) | US | 13/934,051 | 07/02/2013 |

| | | | |
|--|-----|----------------|------------|
| DESIGN OF MICROWAVE ACOUSTIC WAVE FILTERS (Docket No. RES-017CON) | US | 13/939,065 | 07/10/2013 |
| MICROWAVE ACOUSTIC WAVE FILTERS (Docket No. RES-017CON2) | US | 14/209,551 | 03/13/2014 |
| IMPROVED DESIGN OF MICROWAVE ACOUSTIC WAVE FILTERS (Docket No. RES-017WO01) | PCT | PCT/US14/19091 | 02/27/2014 |
| NETWORK SYNTHESIS DESIGN OF MICROWAVE ACOUSTIC WAVE FILTERS (Docket No. RES-018) | US | 13/838,943 | 03/15/2013 |
| NETWORK SYNTHESIS DESIGN OF MICROWAVE ACOUSTIC WAVE FILTERS (Docket No. RES-018CIP) | US | 14/214,562 | 03/14/2014 |
| NETWORK SYNTHESIS DESIGN OF MICROWAVE ACOUSTIC WAVE FILTERS (Docket No. RES-018CIPWO) | PCT | PCT/US14/29800 | 03/14/2014 |
| RECONFIGURABLE MICROWAVE FILTER (Docket No. STI-004P) | US | 60/737,878 | 11/18/2005 |
| LOW-LOSS TUNABLE RADIO FREQUENCY FILTER (Docket No. STI-004) | US | 11/561,333 | 11/17/2006 |
| LOW LOSS TUNABLE RADIO FREQUENCY FILTER | US | 12/163,814 | 06/27/2008 |

| | | | |
|---|----|------------|------------|
| (Docket No. STI-007) | | | |
| LOW LOSS TUNABLE RADIO FREQUENCY FILTER (Docket No. STI-007CON) | US | 12/620,455 | 01/04/2011 |
| LOW LOSS TUNABLE RADIO FREQUENCY FILTER (Docket No. STI-007CIP) | US | 14/214,249 | 03/14/2014 |
| LOW LOSS TUNABLE RADIO FREQUENCY FILTER (Docket No. STI-007CON2) | US | 12/959,237 | 12/02/2010 |
| LOW LOSS TUNABLE FILTER RADIO FREQUENCY FILTER (Docket No. STI-007CON3) | US | 13/282,289 | 10/26/2011 |
| ELECTRICAL FILTERS WITH IMPROVED INTERMODULATION DISTORTION (Docket No. STI-008) | US | 12/163,837 | 06/27/2008 |
| MICRO-MINIATURE MONOLITHIC ELECTROMAGNETIC RESONATORS (Docket No. STI-009) | US | 12/410,976 | 03/25/2009 |
| MICRO-MINIATURE MONOLITHIC ELECTROMAGNETIC RESONATORS (Docket No. STI-009PR) | US | 61/070,634 | 03/25/2008 |
| HTS TRANSMIT FILTER (Docket No. STI-009PR2) | US | 61/163,167 | 03/25/2009 |
| MIXED RESONATOR MONOLITHIC BAND-PASS FILTER WITH ENHANCED REJECTION | US | 61/345,476 | 05/17/2010 |

| | | | |
|---|----|------------|------------|
| (Docket No. STI-011) | | | |
| NARROW BAND-PASS FILTER HAVING RESONATORS GROUPED INTO PRIMARY AND SECONDARY SETS OF DIFFERENT ORDER (Docket No. STI-011US) | US | 13/093,539 | 04/25/2011 |
| MIXED RESONATOR MONOLITHIC BAND-PASS FILTER WITH ENHANCED REJECTION (Docket No. STI-011CON) | US | 14/484,806 | 09/12/2014 |