

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT4115739

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KRISTI PANCE	10/26/2016
KARL SPRENTALL	10/26/2016
SHAWN P. WILLIAMS	10/25/2016
ROBERT C. DAIGLE	10/26/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ROGERS CORPORATION
<b>Street Address:</b>	ONE TECHNOLOGY DRIVE
<b>Internal Address:</b>	POST OFFICE BOX 188
<b>City:</b>	ROGERS
<b>State/Country:</b>	CONNECTICUT
<b>Postal Code:</b>	06263-0188
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15334699
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(860)286-0115
<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>	860-286-2929
<b>Email:</b>	usptopatentmail@cantorcolburn.com
<b>Correspondent Name:</b>	CANTOR COLBURN LLP
<b>Address Line 1:</b>	20 CHURCH STREET, 22ND FLOOR
<b>Address Line 4:</b>	HARTFORD, CONNECTICUT 06103
<b>ATTORNEY DOCKET NUMBER:</b>	RP30090US5 (15Y)
<b>NAME OF SUBMITTER:</b>	DAVID ARNOLD
<b>SIGNATURE:</b>	/David Arnold/
<b>DATE SIGNED:</b>	10/27/2016
<b>Total Attachments: 16</b> source=7PF8253#page1.tif	

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source=7PF8253#page16.tif

ASSIGNMENT

WHEREAS We/I, **Kristi Pance, Karl Sprentall, Shawn P. Williams, and Robert C. Daigle** of 9 Tudor Terrace, Auburndale, MA 02466, 7811 E. Lewis Avenue, Scottsdale, AZ 85257, 63 Bartlett Street, Andover, MA 01810, and 42 Coates Farm Road, Amston, CT 06231, respectively, (hereinafter collectively "ASSIGNOR(S)") have invented certain new and useful improvements in the following invention:

**BROADBAND MULTIPLE LAYER DIELECTRIC RESONATOR ANTENNA AND METHOD OF MAKING THE SAME**

for which an application for Letters Patent of the United States was filed on October 26, 2016, as United States Serial Number 15/334,699 (We hereby authorize and request the Company or its delegated attorneys or agents to insert herein the application number and filing date of the application when known) having attorney docket No. RP30090US5(15Y) (hereinafter the "APPLICATION"); and

WHEREAS, ROGERS CORPORATION, a corporation organized and existing under the laws of the UNITED STATES OF AMERICA, having a place of business at One Technology Drive, Post Office Box 188, Rogers, CT 06263-0188, desires to acquire or has acquired, and each undersigned inventor acknowledges the obligation to assign to, in and to the INVENTION, the APPLICATION, and any and all Patents to be obtained therefor to ROGERS CORPORATION, and the parties desire to use this Assignment to memorialize the grant to ROGERS CORPORATION of the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, including all embodiments thereof, and in and to any and all patent applications and patents directed thereto;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, the ASSIGNOR(S) have assigned and transferred, and hereby assign and transfer to ROGERS CORPORATION its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all Patents that may be issued therefrom, in any and all countries, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents.

In addition, the ASSIGNOR(S) hereby authorize and request any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to ROGERS CORPORATION, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ROGERS CORPORATION, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the ASSIGNORS had this Assignment not been made; and the ASSIGNOR agrees on behalf of themselves, their successors and legal representatives, to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and any and all related patents and

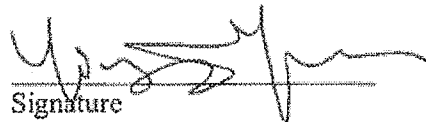
RP30090US5 (15Y)

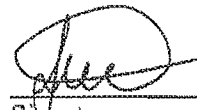
applications, in ROGERS CORPORATION, its successors, legal representatives, and assigns, whenever requested by ROGERS CORPORATION, its successors, legal representatives, and assigns.

The ASSIGNOR(S) also hereby grant ROGERS CORPORATION, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification of the APPLICATION (including, but not limited to, Application Number and filing date, and Attorney Docket Number), and further grants ROGERS CORPORATION, its successors, legal representatives, and assigns the right to execute confirmatory assignments on their behalf.

The undersigned declare that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: October 26th 2016 Kristi Pance L.S.   
Kristi Pance

Witnessed by:   
Signature Date: 10/26/2016  
YITING TAO  
Printed Name of Witness

Witnessed by:   
Signature Date: 10/26/16  
STEPHEN O'CONNOR  
Printed Name of Witness

RP30090US5 (15Y)

Date: \_\_\_\_\_

\_\_\_\_\_ L.S.  
**Karl Sprentall**

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Date: \_\_\_\_\_

\_\_\_\_\_ L.S.  
**Shawn P. Williams**

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

RP30090US5 (15Y)

Date: \_\_\_\_\_

\_\_\_\_\_ L.S.  
**Robert C. Daigle**

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

ASSIGNMENT

WHEREAS We/I, **Kristi Pance, Karl Sprentall, Shawn P. Williams, and Robert C. Daigle** of 9 Tudor Terrace, Auburndale, MA 02466, 7811 E. Lewis Avenue, Scottsdale, AZ 85257, 63 Bartlett Street, Andover, MA 01810, and 42 Coates Farm Road, Amston, CT 06231, respectively, (hereinafter collectively "ASSIGNOR(S)") have invented certain new and useful improvements in the following invention:

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for which an application for Letters Patent of the United States was filed on October 26, 2016, as United States Serial Number 15/334,699 (We hereby authorize and request the Company or its delegated attorneys or agents to insert herein the application number and filing date of the application when known) having attorney docket No. RP30090US5(15Y) (hereinafter the "APPLICATION"); and

WHEREAS, ROGERS CORPORATION, a corporation organized and existing under the laws of the UNITED STATES OF AMERICA, having a place of business at One Technology Drive, Post Office Box 188, Rogers, CT 06263-0188, desires to acquire or has acquired, and each undersigned inventor acknowledges the obligation to assign to, in and to the INVENTION, the APPLICATION, and any and all Patents to be obtained therefor to ROGERS CORPORATION, and the parties desire to use this Assignment to memorialize the grant to ROGERS CORPORATION of the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, including all embodiments thereof, and in and to any and all patent applications and patents directed thereto;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, the ASSIGNOR(S) have assigned and transferred, and hereby assign and transfer to ROGERS CORPORATION its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all Patents that may be issued therefrom, in any and all countries, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents.

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Date: \_\_\_\_\_ L.S.  
**Kristi Pance**

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness



RP30090US5 (15Y)

Date: 10/26/2016

[Signature] L.S.  
Karl Sprentall

Witnessed by: [Signature]  
Signature  
YI YING YAO  
Printed Name of Witness

Date: 10/26/2016

Witnessed by: [Signature]  
Signature  
Eui Kyeon Kim  
Printed Name of Witness

Date: 10/26/2016

Date: \_\_\_\_\_

\_\_\_\_\_  
Shawn P. Williams L.S.

Witnessed by: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Date: \_\_\_\_\_

Witnessed by: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Date: \_\_\_\_\_

RP30090US5 (15Y)

Date: \_\_\_\_\_

\_\_\_\_\_ L.S.  
**Robert C. Daigle**

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

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Date: \_\_\_\_\_

\_\_\_\_\_ L.S.  
**Kristi Pance**

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

RP30090US5 (15Y)

Date: \_\_\_\_\_ L.S.  
Karl Sprentall

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Date: 10/25/16 \_\_\_\_\_ L.S.  
Shawn P. Williams

Witnessed by: Kurt C. Frisch Jr. Date: 10/25/16  
Signature  
Kurt C. Frisch Jr.  
Printed Name of Witness

Witnessed by: John T. Neill Date: 10/25/16  
Signature  
John T. Neill  
Printed Name of Witness

RP30090US5 (15Y)

Date: \_\_\_\_\_

\_\_\_\_\_ L.S.  
**Robert C. Daigle**

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

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Date: \_\_\_\_\_ L.S.  
**Kristi Pance**

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature  
\_\_\_\_\_  
Printed Name of Witness



RP30090US5 (15Y)

Date: \_\_\_\_\_

\_\_\_\_\_  
**Karl Sprentall** L.S.

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Date: \_\_\_\_\_

\_\_\_\_\_  
**Shawn P. Williams** L.S.

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

Witnessed by: \_\_\_\_\_  
Signature

Date: \_\_\_\_\_

\_\_\_\_\_  
Printed Name of Witness

RP30090US5 (15Y)

Date: 10/26/16

Robert C. Daigle L.S.  
Robert C. Daigle

Witnessed by: BB  
Signature

Date: 10/26/2016

Benjamin M. Buckle  
Printed Name of Witness

Witnessed by: Laura Morse  
Signature

Date: 10-26-16

LAURA MORSE  
Printed Name of Witness