

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3949124

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	THOMAS A. KOES	07/05/2016
<b>RECEIVING PARTY DATA</b>		
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<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:	15177882
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<b>NAME OF SUBMITTER:</b>	LEAH M. REIMER, REG. NO. 39,341	
<b>SIGNATURE:</b>	/Leah M. Reimer/	
<b>DATE SIGNED:</b>	07/06/2016	
<b>Total Attachments: 2</b>		
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ASSIGNMENT

WHEREAS I, Thomas A. Koes of 17424 Star Canyon Court, Riverside, CA 92503 (hereinafter "ASSIGNOR") have invented certain new and useful improvements in the following invention:

**CIRCUIT MATERIALS AND ARTICLES FORMED THEREFROM**

for which an application for Letters Patent of the United States was filed on **June 9, 2016**, as United States Serial Number **15/177,882**, which claims the benefit of United States Provisional Serial Number 62/181,389, filed June 18, 2015 (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 has assigned and transferred, and hereby assigns and transfers 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 hereby authorizes and requests 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 ASSIGNOR had this Assignment not been made; and the ASSIGNOR agrees on behalf of himself, his 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 applications, in ROGERS CORPORATION, its successors, legal representatives, and assigns, whenever requested by ROGERS CORPORATION, its successors, legal representatives, and assigns.

The ASSIGNOR also hereby grants 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 declares that all statements made herein of his 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: July 5, 2016

Thomas A. Koes L.S.  
THOMAS A. KOES

Witnessed by:

[Signature]  
Signature

Date:

July 5, 2016

ROGELIO L. DABUALO  
Printed Name of Witness

Witnessed by:

[Signature]  
Signature

Date:

July 5, 2016

Benjamin Leach  
Printed Name of Witness