

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
AMRO M. ELSHURAF A	03/04/2014
AHMED GOMAA AHMED RADWAN	04/09/2014
AHMED A. EMIRA	04/03/2014
KHALED NABIL SALAMA	04/14/2014
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14239346
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<b>DATE SIGNED:</b>	05/08/2014
<b>Total Attachments: 5</b>	
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**ASSIGNMENT  
OF UTILITY PATENT APPLICATION**

WHEREAS, we, **Amro M. Elshurafa, Ahmed Gomaa Ahmed Radwan, Ahmed A. Emira and Khaled Nabil Salama**, hereinafter referred to as ASSIGNORS, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

**FRACTAL STRUCTURES FOR MEMS VARIABLE CAPACITORS**

which was:

- ☐ executed on even date herewith,
- ☒ filed with the United States Patent and Trademark Office (USPTO) on February 18, 2014, and assigned Serial No.: 14/239,346, and
- ☒ further described in U.S. Provisional application entitled "FRACTAL STRUCTURES FOR FIXED AND VARIABLE MEMS CAPACITORS", filed with the USPTO on August 25, 2011, and assigned Serial No. 61/527,237.

WHEREAS, King Abdullah University of Science and Technology, having a business at 4700 King Abdullah University of Science and Technology, Thuwal, Kingdom of Saudi Arabia 23955-6900, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in said invention(s) and provisional application and in any and all U.S. and foreign patents which may be granted on the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNORS, ASSIGNORS have sold, assigned and transferred and do hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said Invention(s), and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said Invention(s), including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said Invention(s), and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

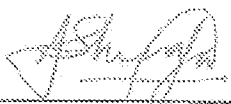
ASSIGNORS authorize ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Invention(s), without further authorization from ASSIGNORS, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNORS hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said invention(s), said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNORS request that any and all patents for said invention(s) be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

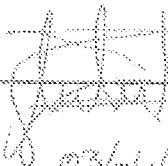
ASSIGNORS covenant and agree that, when requested, ASSIGNORS shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNORS authorize ASSIGNEE or its agents to insert, on ASSIGNORS' behalf, the filing date and/or serial number above pertaining to the provisional application, if not known as of the date of execution of this document.



Amro M. Elshurafa

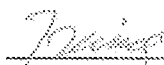
Date: March 4, 2014



Witness

TAREK ATALLAH


Date: 03/04/2014




Tamia Zamrik

Witness

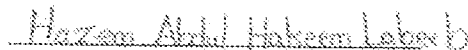
Date: 04/March/2014

  
Ahmed Gomaa Ahmed Radwan

Date: 9/9/2014

  
Witness

Date: 9/9/2014

  
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Date: Apr 14, 2014

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Date: Apr 14, 2014