

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3635391

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Michael Mandell	12/10/2014
Ted Kaplan	12/10/2014
Arnold Berman	12/10/2014
Jeffrey Freedman	12/10/2014
Brian Sipos	12/10/2014
Scott Conrad Markley	12/10/2014
Erik Halvorson	12/10/2014
David Marshack	12/10/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	RKF ENGINEERING SOLUTIONS, LLC
<b>Street Address:</b>	1229 NINETEENTH STREET, NW
<b>City:</b>	WASHINGTON
<b>State/Country:</b>	D.C.
<b>Postal Code:</b>	20036
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14953681
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<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>	(202) 626-6428
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<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
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<b>ATTORNEY DOCKET NUMBER:</b>	35876-0013002
<b>NAME OF SUBMITTER:</b>	LORI L. STEWART
<b>SIGNATURE:</b>	/Lori L. Stewart/

PATENT

<b>DATE SIGNED:</b>	11/30/2015
<b>Total Attachments: 3</b> source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	

ASSIGNMENT

For valuable consideration, we, MICHAEL MANDELL of 29423 Wellington Street, Farmington Hills, MI 48334, TED KAPLAN of 11500 Evelake Court, North Potomac, MD 20878, ARNOLD BERMAN of 737 Devonshire Place, NW, Apt. # 211, Washington, DC 20008, JEFFREY FREEDMAN of 11378 Bishops Gate Lane, Laurel, MD 20723, BRIAN SIPOS of 1308 Michigan Avenue, Alexandria, VA 22314, SCOTT CONRAD MARKLEY of 2201 N Street, NW, Apt #1, Washington, DC 20037, ERIK HALVORSON of 2241 Chestertown Drive, Vienna, VA 22182, and DAVID MARSHACK of 10540 Farnham Drive, Bethesda, MD 20814, hereby assign to: RKF Engineering Solutions, LLC, a corporation of Delaware having a place of business at: 1229 Nineteenth Street, NW, Washington, DC 20036, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SATELLITE BEAMFORMING USING SPLIT SWITCHES, filed 3/14/2013, and assigned U.S. Serial Number 13/803,449, and U.S. Provisional Patent Application entitled SATELLITE BEAMFORMING AND CHANNELIZATION, filed 9/24/2012 and assigned U.S. Serial Number 61/704,972, this assignment including said applications, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: 12/10/14

Michael Mandell  
MICHAEL MANDELL

Witnessed by:

Name: Thomas B. Lind

Date: 12/10/14

Name: Philip A. Rutz

Date: 12/10/14

Date: 12/10/14

Ted Kaplan  
TED KAPLAN

Witnessed by:

Name: Thomas B. Lind

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Name: Philip A. Rutz

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Arnold Berman  
ARNOLD BERMAN

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Jeffrey Freedman  
JEFFREY FREEDMAN

Witnessed by:


Name: Thomas B. Lind

Date: 12/10/14

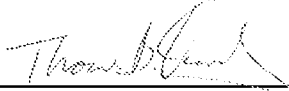
Name: Philip A. Rutz

Date: 12/10/14

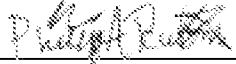
Date: 12/10/14

  
BRIAN SIPOS

Witnessed by:

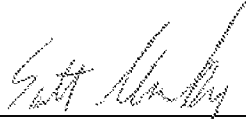
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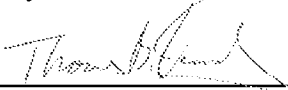
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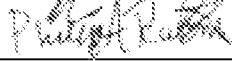
Date: 12/10/14

  
SCOTT CONRAD MARKLEY

Witnessed by:

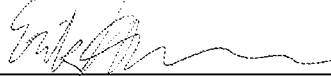
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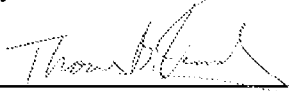
Name: 

Date: 12/10/14

Date: 12/10/14

  
ERIK HALVORSON

Witnessed by:


Name: 

Date: 12/10/14

Name: 

Date: 12/10/14

Date: 12/10/14

  
DAVID MARSHACK

Witnessed by:

Name: 

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