

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5469418

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DONALD L RUNYON	03/06/2019
DOMINIC Q NGUYEN	03/15/2019
JAMES W MAXWELL	03/06/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	VIASAT, INC.
<b>Street Address:</b>	6155 EL CAMINO REAL
<b>City:</b>	CARLSBAD
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92009
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16258275
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	7604764622
<b>Email:</b>	patent-admin@viasat.com
<b>Correspondent Name:</b>	VIASAT, INC.
<b>Address Line 1:</b>	6155 EL CAMINO REAL
<b>Address Line 4:</b>	CARLSBAD, CALIFORNIA 92009
<b>ATTORNEY DOCKET NUMBER:</b>	VS1499-US-5
<b>NAME OF SUBMITTER:</b>	SHELLEY SWEDO
<b>SIGNATURE:</b>	/Shelley Swedo/
<b>DATE SIGNED:</b>	04/11/2019
<b>Total Attachments: 6</b>	
source=190315_Assignment-ALL (Signed)_VS1499-US-5#page1.tif	
source=190315_Assignment-ALL (Signed)_VS1499-US-5#page2.tif	
source=190315_Assignment-ALL (Signed)_VS1499-US-5#page3.tif	
source=190315_Assignment-ALL (Signed)_VS1499-US-5#page4.tif	

source=190315\_Assignment-ALL (Signed)\_VS1499-US-5#page5.tif

source=190315\_Assignment-ALL (Signed)\_VS1499-US-5#page6.tif

**ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to ViaSat, Inc., having a place of business at 6155 El Camino Real, Carlsbad CA 92009 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

- 1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the application for United States Letters Patent entitled: DUAL-CIRCULAR POLARIZED ANTENNA SYSTEM ("APPLICATION"), which:

- is to be filed herewith (attorney docket no. \_\_\_\_\_)
- was filed on 25-Jan-2019, now bearing U.S. Application No.: 16/258,275

- 2. The entire worldwide right, title, and interest in and to:
  - (a) the APPLICATION, including any right of priority; (b) any divisional, continuation, substitute, renewal, reissue, and other related applications which have been or may be filed in the United States or elsewhere in the world; and (c) any patents which may be granted on the applications set forth in (a) and (b) above.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

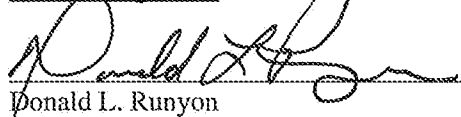
INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the right, title, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has made or will make hereafter no assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

I hereby authorize and request the attorney of record for this application to insert above the filing date and application number when known, if applicable.

Name & Signature

  
Donald L. Runyon

Date of Signature

06 MAR 2019

Name & Signature

Date of Signature

\_\_\_\_\_  
Dominic Q. Nguyen

\_\_\_\_\_  
James W. Maxwell

**ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to ViaSat, Inc., having a place of business at 6155 El Camino Real, Carlsbad CA 92009 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

- 1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the application for United States Letters Patent entitled: DUAL-CIRCULAR POLARIZED ANTENNA SYSTEM ("APPLICATION"), which:
  - is to be filed herewith (attorney docket no. \_\_\_\_\_)
  - was filed on 25-Jan-2019, now bearing U.S. Application No.: 16/258,275
  
- 2. The entire worldwide right, title, and interest in and to:
  - (a) the APPLICATION, including any right of priority; (b) any divisional, continuation, substitute, renewal, reissue, and other related applications which have been or may be filed in the United States or elsewhere in the world; and (c) any patents which may be granted on the applications set forth in (a) and (b) above.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the right, title, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has made or will make hereafter no assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

I hereby authorize and request the attorney of record for this application to insert above the filing date and application number when known, if applicable.

Name & Signature

Date of Signature

\_\_\_\_\_  
Donald L. Runyon

\_\_\_\_\_

Name & Signature

Date of Signature

Dominic Q. Nguyen  
Dominic Q. Nguyen

3/15/19

\_\_\_\_\_  
James W. Maxwell

\_\_\_\_\_

**ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to ViaSat, Inc., having a place of business at 6155 El Camino Real, Carlsbad CA 92009 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the application for United States Letters Patent entitled: DUAL-CIRCULAR POLARIZED ANTENNA SYSTEM ("APPLICATION"), which:
  - is to be filed herewith (attorney docket no. \_\_\_\_\_)
  - was filed on 25-Jan-2019, now bearing U.S. Application No.: 16/258,275
  
2. The entire worldwide right, title, and interest in and to:
  - (a) the APPLICATION, including any right of priority; (b) any divisional, continuation, substitute, renewal, reissue, and other related applications which have been or may be filed in the United States or elsewhere in the world; and (c) any patents which may be granted on the applications set forth in (a) and (b) above.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the right, title, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has made or will make hereafter no assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

I hereby authorize and request the attorney of record for this application to insert above the filing date and application number when known, if applicable.

Name & Signature

Date of Signature

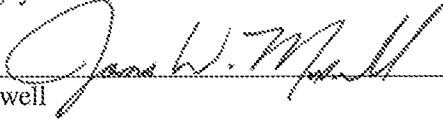
-----  
Donald L. Runyon

Name & Signature

Date of Signature

\_\_\_\_\_  
Dominic Q. Nguyen

\_\_\_\_\_  
James W. Maxwell



\_\_\_\_\_  
03/06/2019