### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5511253

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
CHRISTOPH ERNST	07/12/2018
PETRONILO MARTIN IGLESIAS	05/23/2018
UWE ROSENBERG	05/24/2018

### **RECEIVING PARTY DATA**

Name:	EUROPEAN SPACE AGENCY	
Street Address:	8-10 RUE MARIO-NIKIS	
City:	PARIS- CEDEX 15	
State/Country:	FRANCE	
Postal Code: 75738		

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15749390

### CORRESPONDENCE DATA

Fax Number: (619)235-0398

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.

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PROCOPIO, CORY, HARGREAVES & SAVITCH LLP **Correspondent Name:** 

Address Line 1: 525 B STREET Address Line 2: **SUITE 2200** 

Address Line 4: SAN DIEGO, CALIFORNIA 92101

ATTORNEY DOCKET NUMBER:	126035-005US1
NAME OF SUBMITTER:	JESSICA R. GROSS
SIGNATURE:	/Jessica R. Gross/
DATE SIGNED:	05/07/2019

#### **Total Attachments: 3**

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> **PATENT REEL: 049105 FRAME: 0965**

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## Assignment

Whereas, We, Christoph ERNST of Voorhout, Netherlands, Petronilo Martin IGLESIAS of Den Haag, Netherlands, and Uwe ROSENBERG of Osterholz-Scharmbeck, Germany, hereinafter called assignors, have invented certain improvements in MICROWAVE BRANCHING SWITCH and executed an application for Letters Patent of the United States of America therefor; and

Whereas, European Space Agency, 8-10 rue Mario Nikis, 75738 Paris Cedex 15, France (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U.S.C. §119, and We request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and We hereby agree that the assignee may apply for foreign Letters Patent on the invention and We will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

	We hereby authorize and request our attorneys PROCOPIO, CORY, HARGREAVES &
SAVIT	CH LLP of 525 B Street, Suite 2200, San Diego, CA 92101 to insert here in parentheses
	cation number 15/749,390 and Confirmation number 3331 filed January 31, 2018 the tion number, confirmation number and filing date of said application when known.
Date:	12/07/2018 Christoph Los
	s/ Christoph ERNST
Date:	
	s/ Petronilo Martin IGLESIAS
Date:	
	s/ Uwe ROSENBERG

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT REEL: 049105 FRAME: 0966

# Assignment

Whereas, We, Christoph ERNST of Voorhout, Netherlands, Petronilo Martin IGLESIAS of Den Haag, Netherlands, and Uwe ROSENBERG of Osterholz-Scharmbeck, Germany, hereinafter called assignors, have invented certain improvements in MICROWAVE BRANCHING SWITCH and executed an application for Letters Patent of the United States of America therefor; and

Whereas, **European Space Agency**, 8-10 rue Mario Nikis, 75738 Paris Cedex 15, France (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U.S.C. §119, and We request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and We hereby agree that the assignee may apply for foreign Letters Patent on the invention and We will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

We hereby authorize and request our attorneys PROCOPIO, CORY, HARGREAVES & SAVITCH LLP of 525 B Street, Suite 2200, San Diego, CA 92101 to insert here in parentheses (Application number 15/749,390 and Confirmation number 3331 , filed January 31, 2018) the application number, confirmation number and filing date of said application when known.

Date:		
		s/ Christoph ERNST
Date:	23/05/2018	
		s/ Petronilo Martin IGLESIAS
Date:		
		s/ Uwe ROSENBERG

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT REEL: 049105 FRAME: 0967

## Assignment

Whereas, We, Christoph ERNST of Voorhout, Netherlands, Petronilo Martin IGLESIAS of Den Haag, Netherlands, and Uwe ROSENBERG of Osterholz-Scharmbeck, Germany, hereinafter called assignors, have invented certain improvements in MICROWAVE BRANCHING SWITCH and executed an application for Letters Patent of the United States of America therefor; and

Whereas, European Space Agency, 8-10 rue Mario Nikis, 75738 Paris Cedex 15, France (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby soll, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U.S.C. §119, and We request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and We hereby agree that the assignee may apply for foreign Letters Patent on the invention and We will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

We hereby authorize and request our attorneys PROCOPIO, CORY, HARGREAVES & SAVITCH LLP of 525 B Street, Suite 2200, San Diego, CA 92101 to insert here in parentheses (Application number 15/749,390 and Confirmation number 3331 \_\_\_\_\_, filed January 31, 2018) the application number, confirmation number and filing date of said application when known.

Date:				
***************************************	s/ Christoph El	RNST		 
Date:				
	s/ Petronilo Ma	ertin I&LESIAS		 
Date: 1/44, 24	18 / /20			
	/ s/podeoses	BERG	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT REEL: 049105 FRAME: 0968

RECORDED: 05/07/2019