PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3165374

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HANSPETER KATZ	11/25/2014
JOCHEN ARTMANN	11/25/2014
ERIC WOLF	11/25/2014
CHRISTIAN RAPP	11/25/2014
ULRICH KOEGER	11/25/2014

RECEIVING PARTY DATA

Name:	TESAT-SPACECOM GMBH & CO. KG
Street Address:	GERBERSTRASSE 49
City:	BACKNANG
State/Country:	GERMANY
Postal Code:	71522

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14551680

CORRESPONDENCE DATA

Fax Number: (202)628-8844

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.

Phone: 2026242500

ggoodin@crowell.com Email: **Correspondent Name: CROWELL & MORING LLP**

Address Line 1: 1001 PENNSYLVANIA AVENUE, NW Address Line 4: WASHINGTON, D.C. 20004-2595

ATTORNEY DOCKET NUMBER:	108424.67143US
NAME OF SUBMITTER: STEPHEN W. PALAN	
SIGNATURE:	/Stephen W. Palan, Reg. No. 43,420/
DATE SIGNED:	12/30/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5

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PATENT

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Title of Invention:

ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

This a:	ssignment and declaration are directed:	to (check one):
\boxtimes	the application identified above by the	attorney docket no. and title of invention
	PCT International Application Numbe	r, filed
	United States Application No.	, filed

Circuit Board With Ceramic Inlays

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as a below-named inventor I have sold and assigned, and by these presents hereby sell and assign, unto:

Name of Assignee: Tesat-Spacecom GmbH & Co. KG

Address of Assignee: Gerberstrasse 49, 71522 Backnang, GERMANY

(hereinafter ASSIGNEE) all my right, title, and interest for the United States, its territories, and possessions in and to the above-identified invention and United States patent application, including any and all divisions or continuations thereof, and in and to any and all Letters Patent of the United States that may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors, or assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made.

I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue any and all such Letters Patent to said ASSIGNEE, its successors, or assigns in accordance herewith.

I warrant and covenant that I have the full and unencumbered right to sell and assign the interests herein sold and assigned and that I have not executed and will not execute any document or instrument in conflict herewith.

I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives, or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives, or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent that may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, or assigns, or to assist said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, reissuing, or enforcing Letters Patent of the United States for said invention.

DECLARATION

As a below named inventor, I hereby declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Signature: Inventor:

25. 11.19

ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

Title of Invention:	Circuit Board With Ceramic Is	nlays	
the applicatio	declaration are directed to (check n identified above by the attorney onal Application Number	docket no, and title of in	vention
United States	Application No.	, filed	occurrency.
	ASSIG	<u>NMENT</u>	
	e consideration, the receipt and sur I have sold and assigned, and by		
Name of Assignee:	Tesat-Spacecom GmbH & C	o. KG	
Address of Assignee:	Gerberstrasse 49, 71522 Bac	knang, GERMANY	
and to the above-ident continuations thereof, such application or for enjoyed by said ASSI such Letters Patent man Assignment not been		s patent application, include Patent of the United State and all reissues or extension to the full end of the term of as would have been held	ding any and all divisions or es which may issue on any is thereof, to be held and or terms for which any and all I and enjoyed by me had this
	I request the Director of the U.S.: ASSIGNEE, its successors or assi		
I warrant and covenar	nt that I have the full and unencun I have not executed and will not o	nbered right to sell and as:	sign the interests herein sold
or assigns all informat and deliver any papers acts deemed necessary perfect title to said invall Letters Patent which ASSIGNEE, its succe	agree that I will communicate to tion known to me relating to said s, make all rightful oaths, testify is or desirable by said ASSIGNEE tention, to said application included may be granted therefor or theresors or assigns, or to assist said the eissuing or enforcing Letters Pate	invention or patent applic in any legal proceedings a L, its successors, legal repriling divisions and continuate reon, including reissues or ASSIGNEE, its successor	cation and that I will execute and perform all other lawful resentatives or assigns to ations thereof and to any and r extensions, in said s, legal representatives or
	DECLAI	RATION	
As a below named inv	entor, I hereby declare that:		
The above-identified a	application was made or authorize	ed to be made by me.	
I believe that I am the	original inventor or an original jo	oint inventor of a claimed	invention in the application.
I hereby acknowledge 1001 by fine or impris	that any willful false statement n conment of not more than five (5)	nade in this declaration is years, or both.	punishable under 18 U.S.C.
Signature: Inventor: Joche	en artmann		<u>//okway 25, 2014</u> DATE

ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

Title of Invention:	Circuit Board With Ceramic Inlays			
	This assignment and declaration are directed to (check one): This assignment and declaration are directed to (check one): the application identified above by the attorney docket no. and title of invention			
	al Application Number			
United States Ap	oplication No	, filed		
	AS	SIGNMENT		
			h are hereby acknowledged, as a reby sell and assign, unto:	
Name of Assignee:	Tesat-Spacecom GmbH	H & Co, KG		
Address of Assignee:	Gerberstrasse 49, 7152	2 Backnang, GERMAI	4X	
and to the above-identificontinuations thereof, a application or for said is by said ASSIGNEE, its	fied invention and United nd in and to any and all L nvention, including any a successors, or assigns to tranted as fully and entirel	States patent application etters Patent of the Unit all reissues or extensithe full end of the term of the term.	ates, its territories, and possessions in a, including any and all divisions or led States that may issue on any such ions thereof, to be held and enjoyed or terms for which any and all such eld and enjoyed by me had this	
	request the Director of the SSIGNEE, its successors,		nark Office to issue any and all such se herewith.	
			I and assign the interests herein sold ment or instrument in conflict	
I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives, or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings, and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives, or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent that may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, reissuing, or enforcing Letters Patent of the United States for said invention.				
<u>DECLARATION</u>				
As a below named inventor, I hereby declare that:				
The above-identified application was made or authorized to be made by me.				
I believe that I am the o	riginal inventor or an orig	ginal joint inventor of a	claimed invention in the application.	
	hat any willful false state		ration is punishable under 18 U.S.C.	
Signature: Eric W	Tac UB		25.11.14 DATE	

ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

Title of Invention:	Circuit Board With Ceramic Inlays		
This assignment and declaration are directed to (check one): the application identified above by the attorney docket no. and title of invention PCT International Application Number			
	<u>ASSIGNMENT</u>		
	consideration, the receipt and sufficiency of wl I have sold and assigned, and by these presents		
Name of Assignee:	Tesat-Spacecom GmbH & Co. KG		
Address of Assignee:	Gerberstrasse 49, 71522 Backnang, GERM	IANY	
(hereinafter ASSIGNEE) all my right, title and interest for the United States, its territories and possessions in and to the above-identified invention and United States patent application, including any and all divisions or continuations thereof, and in and to any and all Letters Patent of the United States which may issue on any such application or for said invention, including any and all reissues or extensions thereof, to be held and enjoyed by said ASSIGNEE, its successors or assigns to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by me had this Assignment not been made.			
I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue any and all such Letters Patent to said ASSIGNEE, its successors or assigns in accordance herewith.			
I warrant and covenant that I have the full and unencumbered right to sell and assign the interests herein sold and assigned and that I have not executed and will not execute any document or instrument in conflict herewith.			
I further covenant and agree that I will communicate to said ASSIGNEE, its successors, legal representatives or assigns all information known to me relating to said invention or patent application and that I will execute and deliver any papers, make all rightful oaths, testify in any legal proceedings and perform all other lawful acts deemed necessary or desirable by said ASSIGNEE, its successors, legal representatives or assigns to perfect title to said invention, to said application including divisions and continuations thereof and to any and all Letters Patent which may be granted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its successors or assigns, or to assist said ASSIGNEE, its successors, legal representatives or assigns in obtaining, reissuing or enforcing Letters Patent of the United States for said invention.			
<u>DECLARATION</u>			
As a below named inventor, I hereby declare that:			
The above-identified application was made or authorized to be made by me.			
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.			
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.			
Signature: (Le	an RAPP	25-14,2044 DATE	

RECORDED: 12/30/2014

ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63

(For Use with Signed Application Data Sheet)

Title of Invention:	Circuit Board With Ceramic Inlays	
the application is	claration are directed to (check one): dentified above by the attorney docket al Application Number pplication No.	no. and title of invention _, filed filed
	ASSIGNME	<u>vr</u>
	consideration, the receipt and sufficient have sold and assigned, and by these	cy of which are hereby acknowledged, as a presents hereby sell and assign, unto:
Name of Assignee:	Tesat-Spacecom GmbH & Co. KG	
Address of Assignee:	Gerberstrasse 49, 71522 Backnang,	GERMANY
and to the above-identificontinuations thereof, a application or for said in by said ASSIGNEE, its	ied invention and United States patent and in and to any and all Letters Patent evention, including any and all reissues successors, or assigns to the full end o ranted as fully and entirely as would ha	e United States, its territories, and possessions is application, including any and all divisions or of the United States that may issue on any such so rextensions thereof, to be held and enjoyed if the term or terms for which any and all such ave been held and enjoyed by me had this
	equest the Director of the U.S. Patent a SSIGNEE, its successors, or assigns in	and Trademark Office to issue any and all such accordance herewith.
		right to sell and assign the interests herein sold any document or instrument in conflict
or assigns all information and deliver any papers, acts deemed necessary operfect title to said inversall Letters Patent that m ASSIGNEE, its success	n known to me relating to said inventi- make all rightful oaths, testify in any le or desirable by said ASSIGNEE, its suc- tion, to said application including divi ay be granted therefor or thereon, inclu-	NEE, its successors, legal representatives, or
	DECLARATI	<u>ON</u>
As a below named inver	ntor, I hereby declare that:	
The above-identified application was made or authorized to be made by me.		
I believe that I am the or	riginal inventor or an original joint inv	entor of a claimed invention in the application.
	nat any willful false statement made in nment of not more than five (5) years,	this declaration is punishable under 18 U.S.C. or both.
Signature:	i A Book KOEGER	25. //, 20/4 DATE