#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4041290

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
VITALIS MAIRHANSER	07/28/2016
BIRGIT EFFNER	08/05/2016
ALEXANDER HALCOUSSIS	09/05/2016
HANNES WOLF	08/08/2016

#### **RECEIVING PARTY DATA**

Name:	MTU AERO ENGINES AG
Street Address:	DACHAUER STRASSE 665
City:	MUNICH
State/Country:	GERMANY
Postal Code:	80995

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

Property Type	Number
Application Number:	15223262

#### **CORRESPONDENCE DATA**

**Fax Number:** (401)273-4447

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: 401-273-4446 Email: drj@barjos.com

Correspondent Name: BARLOW, JOSEPHS & HOLMES, LTD.

Address Line 1: 101 DYER STREET, 5TH FLOOR

Address Line 4: PROVIDENCE, RHODE ISLAND 02903

ATTORNEY DOCKET NUMBER:	M078 P03172-US
NAME OF SUBMITTER:	DAVID R. JOSEPHS
SIGNATURE:	/david r. josephs/
DATE SIGNED:	09/07/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 4** 

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PATENT REEL: 039662 FRAME: 0029

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

(For Use with Signed Application Data Sheet)

Title of Invention: GUIDE VANE RING ELEMENT FOR A TURBOMACHINE
This assignment and declaration are directed to (check one):
the attached application; the application identified by the attorney docket no. and title of invention given above; US Application or PCT International Application No
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: MTU Aero Engines AG
Address of Assignee: Dachauer Strasse 665, 80995 Munich, 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.
<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: Otolo Contract (a) 28, 2016 Inventor: Vitalis Mairhanser DATE

Title of Invention: GUIDE VANE RING ELEMENT FOR A TURBOMACHINE

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

(For Use with Signed Application Data Sheet)

the attached app the application i	eclaration are directed to (check one): dication; dentified by the attorney docket no. and title of invention given above; or PCT International Application No
	ASSIGNMENT
For good and valuable named inventor I have	consideration, the receipt and sufficiency of which are hereby acknowledged, as a below-sold and assigned, and by these presents hereby sell and assign, unto:
Name of Assignee:	MTU Aero Engines AG
Address of Assignee:	Dachauer Strasse 665, 80995 Munich, Germany
and to the above-identi continuations thereof, a application or for said i said ASSIGNEE, its su	E) all my right, title, and interest for the United States, its territories, and possessions in fied invention and United States patent application, including any and all divisions or and in and to any and all Letters Patent of the United States that may issue on any such invention, including any and all reissues or extensions thereof, to be held and enjoyed by coessors, or assigns to the full end of the term or terms for which any and all such Letters as fully and entirely as would have been held and enjoyed by me had this Assignment not
I hereby authorize and a Letters Patent to said A	request the Director of the U.S. Patent and Trademark Office to issue any and all such SSIGNEE, its successors, or assigns in accordance herewith.
I warrant and covenant assigned and that I have	that I have the full and unencumbered right to sell and assign the interests herein sold and enot executed and will not execute any document or instrument in conflict herewith.
assigns all information deliver any papers, mak deemed necessary or de to said invention, to said patent that may be gran successors, or assigns, or	agree that I will communicate to said ASSIGNEE, its successors, legal representatives, or known to me relating to said invention or patent application and that I will execute and the all rightful oaths, testify in any legal proceedings, and perform all other lawful acts estrable by said ASSIGNEE, its successors, legal representatives, or assigns to perfect titled application including divisions and continuations thereof and to any and all Letters ted therefor or thereon, including reissues or extensions, in said ASSIGNEE, its or to assist said ASSIGNEE, its successors, legal representatives, or assigns in obtaining, Letters Patent of the United States for said invention.
	<u>DECLARATION</u>
As a below-named inve	ntor, I hereby declare that:
The above-identified ap	plication was made or authorized to be made by me.
I believe that I am the o	riginal inventor or an original joint inventor of a claimed invention in the application.
I hereby acknowledge to § 1001 by fine or impris	hat any willful false statement made in this declaration is punishable under 18 U.S.C. somment of not more than five (5) years, or both.
Signature: Birgit I	5.8.16 Edition DATE

# ASSIGNMENT AND DECLARATION UNDER 37 C.F.R. § 1.63 (For Use with Signed Application Data Sheet)

Title of Invention: GUIDE VANE RING ELEMENT FOR A TURBOMACHINE
This assignment and declaration are directed to (check one):  the attached application;  the application identified by the attorney docket no. and title of invention given above;  US Application or PCT International Application No
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: MTU Aero Engines AG
Address of Assignee: Dachauer Strasse 665, 80995 Munich, Germany
(hereinaster 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.
<b>DECLARATION</b>
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:  Alexander Hateoussis  DATE  DATE

**RECORDED: 09/07/2016** 

Title of Invention: GUIDE VANE RING ELEMENT FOR A TURBOMACHINE

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	<u>ASSIGNMENT</u>	
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:	MTU Aero Engines AG	
Address of Assignee:	Dachauer Strasse 665, 80995 Munich, Germany	
and to the above-identificontinuations thereof, as application or for said in said ASSIGNEE, its suc	all my right, title, and interest for the United States, its territories, and possessions in fied invention and United States patent application, including any and all divisions or and in and to any and all Letters Patent of the United States that may issue on any such a prention, including any and all reissues or extensions thereof, to be held and enjoyed by accessors, or assigns to the full end of the term or terms for which any and all such Letters as fully and entirely as would have been held and enjoyed by me had this Assignment not	
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.		
<b>DECLARATION</b>		
As a below-named inve	ntor, 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: Hannes	Wolf Light 8th 2016	