PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3942909

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DR. MARTIN SCHLOFFER	06/27/2016
DR. WILFRIED SMARSLY	06/28/2016
DR. MARC HALTRICH	06/29/2016

RECEIVING PARTY DATA

Name:	MTU AERO ENGINES AG
Street Address:	DACHAUER STRASSE 665
Internal Address:	INTELLECTUAL PROPERTY MANAGEMENT
City:	MUNICH
State/Country:	GERMANY
Postal Code:	D-80995

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15191038

CORRESPONDENCE DATA

Fax Number: (512)308-6380

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.

Email: mail@abel-ip.com

Correspondent Name: ABEL LAW GROUP LLP

Address Line 1: 8911 N. CAPITAL OF TEXAS HWY

Address Line 2: BLDG 4, STE 4200 Address Line 4: AUSTIN, TEXAS 78759

ATTORNEY DOCKET NUMBER:	6570-P50308
NAME OF SUBMITTER:	HERIBERT F. MUENSTERER
SIGNATURE:	/Heribert F. Muensterer/
DATE SIGNED:	06/30/2016

Total Attachments: 3

source=P50308_Declaration_Assignment_executed#page1.tif source=P50308_Declaration_Assignment_executed#page2.tif source=P50308_Declaration_Assignment_executed#page3.tif

PATENT 503896259 REEL: 039053 FRAME: 0011

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

(For Use with Signed Application Data Sheet)

Title of Invention:	PROCESS AND APPARATUS FOR PRODUCING FORGED TIAI COMPONENTS
the attached application in	claration are directed to (check one): lication; dentified by the attorney docket no. and title of invention given above; oplication No. 15/191,038 filed June 23, 2016.

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: Intellectual Property Management, Dachauer Strasse 665, D-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.

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, groboth.

27.06.2016

PATENT

REEL: 039053 FRAME: 0012

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

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	<u>ASSIGNMENT</u>
	consideration, the receipt and sufficiency of which are hereby acknowledged, as a large sold and assigned, and by these presents hereby sell and assign, unto:
Name of Assignee: M	TU Aero Engines AG
Address of Assignee: I Germany	ntellectual Property Management, Dachauer Strasse 665, D-80995 Munich,
and to the above-identificontinuations thereof, a application or for said in by said ASSIGNEE, its	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 anvention, including any and all reissues or extensions thereof, to be held and enjoyed successors, or assigns to the full end of the term or terms for which any and all such ranted as fully and entirely as would have been held and enjoyed by me had this ade.
	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.
	that I have the full and unencumbered right to sell and assign the interests herein sold have not executed and will not execute any document or instrument in conflict
or assigns all informatic and deliver any papers, acts deemed necessary of perfect title to said inve- all Letters Patent that m ASSIGNEE, its success	gree that I will communicate to said ASSIGNEE, its successors, legal representatives, on known to me relating to said invention or patent application and that I will execute make all rightful oaths, testify in any legal proceedings, and perform all other lawful or desirable by said ASSIGNEE, its successors, legal representatives, or assigns to nation, to said application including divisions and continuations thereof and to any and ay be granted therefor or thereon, including reissues or extensions, in said ors, or assigns, or to assist said ASSIGNEE, its successors, legal representatives, or ssuing, or enforcing Letters Patent of the United States for said invention.
	<u>DECLARATION</u>
As a below-named inver	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 the § 1001 by fine or impris	nat any willful false statement made in this declaration is punishable under 18 U.S.C. comment of not more than five (5) years, or both.
Signature: Inventor:	Dr. Wilfried SMARSLY DATE

PATENT REEL: 039053 FRAME: 0013

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

(For Use with Signed Application Data Sheet)

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PROCESS AND APPARATUS FOR PRODUCING FORGED TIAI

COMPONENTS

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;

United States Application No. 15/191,038 filed June 23, 2016.

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: Intellectual Property Management, Dachauer Strasse 665, D-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.

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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 apy 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:

Dr. Marc HALTRICH

PATENT REEL: 039053 FRAME: 0014

RECORDED: 06/30/2016