504135142 12/19/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4191428

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY	DATA			
		Name	Execution Date	
ANDREAS JAKIMOV			09/26/2016	
THOMAS HESS			10/01/2016	
GEORG SCHLICK			10/21/2016	
ALEXANDER LADEW	/IG		09/26/2016	
RECEIVING PARTY I	ΔΑΤΑ			
Name:	MTU A	MTU AERO ENGINES AG		
Street Address:	DACH	DACHAUER STRASSE 665		
City:	MUNIC	СН		
State/Country:	GERM	GERMANY		
Postal Code:	80995	80995		
PROPERTY NUMBER	RS Total: 1			
		Number		
Property Typ Application Number:		15320131		
Application Number.		13320131		
CORRESPONDENCE	DATA			
	DATA	(401)273-4446		
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Fax Number: <i>Correspondence will using a fax number,</i> Phone: Email:	l be sent to if provideo	o the e-mail address first; if that is a d; if that is unsuccessful, it will be 401-273-4446 drj@barjos.com	sent via US Mail.	
Fax Number: <i>Correspondence will using a fax number,</i> Phone: Email: Correspondent Name	l be sent to if provideo	o the e-mail address first; if that is a d; if that is unsuccessful, it will be 401-273-4446 drj@barjos.com BARLOW, JOSEPHS & HOLMES, L	sent via US Mail.	
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using a fax number, Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4:	l be sent to if provided	o the e-mail address first; if that is a d; if that is unsuccessful, it will be s 401-273-4446 drj@barjos.com BARLOW, JOSEPHS & HOLMES, L 101 DYER STREET 5TH FLOOR PROVIDENCE, RHODE ISLAND 029 M078 P03197-US	sent via US Mail. TD.	
Fax Number: <i>Correspondence will</i> <i>using a fax number</i> , Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET	l be sent to if provided e: NUMBER:	o the e-mail address first; if that is a d; if that is unsuccessful, it will be 401-273-4446 drj@barjos.com BARLOW, JOSEPHS & HOLMES, L 101 DYER STREET 5TH FLOOR PROVIDENCE, RHODE ISLAND 029	sent via US Mail. TD.	
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Fax Number: <i>Correspondence will</i> <i>using a fax number</i> , Phone: Email: Correspondent Name Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NAME OF SUBMITTER SIGNATURE:	l be sent to if provided e: NUMBER:	o the e-mail address first; if that is a d; if that is unsuccessful, it will be s 401-273-4446 drj@barjos.comdrj@barjos.comBARLOW, JOSEPHS & HOLMES, L101 DYER STREET5TH FLOOR PROVIDENCE, RHODE ISLAND 029M078 P03197-USDAVID R. JOSEPHS/david r. josephs/12/19/2016	sent via US Mail. TD.	

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PCT/DE2015/000206, filed April 29, 2015

Attorney Docket No. M078 P03197-US (U.S. Rights)

P808431/US/1

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

Title of Invention:

RAPID MANUFACTURING METHOD AND DEVICE FOR THE SAME COMPRISING OPPOSITELY-DIRECTED PROTECTIVE GAS STREAMS PARALLEL TO THE POWDER LAYER

This assignment and declaration are directed to (check one);

the attached application;

 $\overline{\Sigma}$ the application identified by the attorney docket no. and title of invention given above:

US Application or PCT International Application No. filed

ASSIGNMENT

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

Name of Assignee: MTU Aero Engines AG

Address of Assignce: Duchauer Strusse 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, 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:

Andreas Jakimov

3/26/16

PATENT REEL: 040672 FRAME: 0007

P808431/US/1

Attorney Docket No. M078 P03197-US (U.S. Rights)

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Signature: Thomas Hess Inventor:

01.10.16 Date

PATENT REEL: 040672 FRAME: 0008 PCT/DE2015/000206, filed April 29, 2015

P808431/US/1

Attorney Docket No. M078 P03197-US (U.S. Rights)

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Signature: Inventor:

y Jehnick Silv

M.Od Coll

PATENT REEL: 040672 FRAME: 0009

P808431/US/1

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Signature: Inventor:

Alexander Ladewig

<u>76.09.20</u>16

PATENT REEL: 040672 FRAME: 0010

RECORDED: 12/19/2016