505880071 01/24/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5926896

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| ALEXANDER ROGG | 01/08/2020 |
| BOGDAN LISCA | 01/10/2020 |

RECEIVING PARTY DATA

| Name: | HERAEUS DEUTSCHLAND GMBH & CO. KG |
|-----------------|-----------------------------------|
| Street Address: | HERAEUSSTRASSE 12-14 |
| City: | HANAU |
| State/Country: | GERMANY |
| Postal Code: | 63450 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16624074 |

CORRESPONDENCE DATA

Fax Number: (612)573-2005

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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Email: USPTO.PATENTS@dbclaw.com

Correspondent Name: DICKE, BILLIG & CZAJA Address Line 1: FIFTH STREET TOWERS

Address Line 2: 100 SOUTH FIFTH STREET, SUITE 2250

Address Line 4: MINNEAPOLIS, MINNESOTA 55402

| ATTORNEY DOCKET NUMBER: | G686.106.101 |
|-------------------------|---------------|
| NAME OF SUBMITTER: | PAUL P. KEMPF |
| SIGNATURE: | /paulpkempf/ |
| DATE SIGNED: | 01/24/2020 |

Total Attachments: 4

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PATENT REEL: 051605 FRAME: 0272

505880071

ASSIGNMENT AND DECLARATION

WHEREAS, we:

| | * | , | ž ddyna. |
|---|---|--------------------|--------------------------------|
| | Inventor | <u>Citizenship</u> | Address |
| Alexand | der ROGG | DE | Bärnwinkel 12 |
| | | | 92724 Trabitz, Germany |
| Bogdar | LISCA | RO | Sanmihaiu German 234/C2 |
| | | | 30781 Sanmihalu Roman, Romania |
| (hereinafter referred to as "ASSIGNORS"), have made a discovery or invention ("INVENTION") entitled: LASER CUTTING OF METAL-CERAMIC SUBSTRATES | | | |
| | *************************************** | | |
| for which an application for Letters Patent of the United States has been executed on even date herewith, | | | |
| \boxtimes | for which an application for Letters Patent of the United States has been filed on <u>December 18</u> . | | |
| *····· | <u>2019</u> , bearing Serial No. <u>16/6</u> | | |

ASSIGNMENT

WHEREAS, at the time the INVENTION was made, ASSIGNORS were under an obligation to assign all rights, title, and interest in ASSIGNORS' INVENTION to:

Heraeus Deutschland GmbH & Co. KG (a German Corporation) Heraeusstrasse 12-14 63450 Hanau Germany

and its legal representatives, successors, and assigns (hereinafter referred to as "ASSIGNEE"), which desires to formalize the assignment and its ownership of the entire interest in, to and under said INVENTION and in, to and under any and all applications for patent thereon and all Letters Patent which may be granted thereon.

NOW, THEREFORE, for valuable consideration received by ASSIGNORS, receipt and sufficiency of which is hereby acknowledged and agreed, and intending to be legally bound hereby, ASSIGNORS have assigned and hereby assign to ASSIGNEE, the entire right, title and interest to said INVENTION in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said INVENTION by said applications or any patent applications related thereto, including, but not limited to, continuations, divisionals, reexaminations or reissues thereof or

PATENT REEL: 051605 FRAME: 0273 any legal equivalent thereof in the United States and all foreign countries for the full term or terms for which the same may be granted.

WE, SAID ASSIGNORS, hereby covenant that we have full right to convey the entire right, title and interest herein to ASSIGNEE;

WE, SAID ASSIGNORS, hereby authorize ASSIGNEE, or its representatives, to insert the filing date and serial number of the application when these are known;

AND WE, SAID ASSIGNORS, hereby further covenant and agree that the ASSIGNEE may apply for foreign Letters Patent on said INVENTION, and that we will, at any time, when called upon to do so by the ASSIGNEE communicate to the ASSIGNEE as the case may be, any facts known to us respecting said INVENTION, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said INVENTION, the said applications and the said Letters Patent in the ASSIGNEE and that if reissues of the said Letters Patent or disclaimers relating thereto, or continuations, divisionals, reexaminations, or reissues of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, we will, at any time, when requested by ASSIGNEE, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all continuations, divisionals, reexaminations, or reissues of said applications so desired, and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said INVENTION, and without further compensation, but at the expense of the ASSIGNEE.

DECLARATION

As an above-named inventor, I hereby declare that:

Legal Name of Inventor: Bogdan USCA

This declaration is directed to the United States application referenced above.

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 (or claimed design) in the above-identified application for which this declaration is being submitted.

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.

.2.

Citizenship: 8Q

Docket No. 6585-105-101/H57707US

ASSIGNMENT AND DECLARATION

WHEREAS, we:

| Hiventor | Chizecubio | Addess |
|----------------|------------|--|
| Alexander ROGG | 98 | Bärnwinkei 12 92724 Trabitz, Germany |
| Bogrian EISCA | 80 | Sanmihalu German 234/C2 90781 Sanmihalu Romani, Romania |

(hereinafter referred to as "ASSIGNORS"), have made a discovery or invention ("INVENTION") entitled:

LASER CUTTING OF METAL-CERAMIC SUBSTRATES

| for which an application for Letters Patent of the United States has been executed on even data herewith, |
|---|
| for which an application for Leiters Palent of the United States has been filed on <u>December 18,</u> 2019, bearing Serial No. 16/624,074. |

ASSIGNMENT

WHEREAS, at the time the INVENTION was made, ASSIGNORS were under an obligation to assign all rights, title, and interest in ASSIGNORS' INVENTION to:

Heraeus Deutschland GmbH & Co. KG (a German Corporation) Heraeusstrasse 12-14 63450 Hanau Germany

and its legal representatives, successors, and essigns (hereinalter referred to as "ASSIGMEE"), which desires to formalize the assignment and its ownership of the entire interest in, to and under said INVENTION and in, to and under any and all applications for patent thereon and all tetters Patent which may be grented thereon.

MOW, THEREFORE, for valuable consideration renerved by ASSIGNORS, receips and sufficiency of which is hereby administed and agreed, and intending to be legally bound bereby, ASSIGNORS have assigned and hereby assign to ASSIGNORS, the entire right, title and interest to said (NVENTION in the United States and its territorial possessions and its any and all foreign countries and to all interest patient or countries to be obtained for said inVENTION by said applications or any patient applications related thereto, including, but not limited to, continuations, divisionals, reexaminations or crissues, thereof or

PATENT REEL: 051605 FRAME: 0275

Docket No. 6686.109.101/H67707US

any logal equivalent thereof in the United States and all foreign countries for the full term or terms for which the same may be granted.

WE, SAID ASSIGNORS, hereby covenant that we have full right to convey the entire right, title and interest berein to ASSIGNEE;

WE, SAID ASSIGNORS, hereby authorize ASSIGNEE, or its representatives, to insert the lifting data a and serial number of the application when these are known;

AND WE, SAID ASSIGNORS, beneby for their covenant and agree that the ASSIGNEE may apply for foreign Letters Patent on said INVENTION, and that we will, at any time, when called upon to do so by the ASSIGNEE communicate to the ASSIGNEE as the case may be, any facts known to us respecting said INVENTION, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said INVENTION, the said applications and the said Letters Patent in the ASSIGNEE and that if reissues of the said Letters Patent or disclaimers relating thereto, or continuations, divisionals, reexaminations, or reissues of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, we will, at any time, when requested by ASSIGNEE, sign all lawful papers, make all rightful paths, execute and deliver all such disclaimers and all continuations, divisionals, reexaminations, or reissues of said applications so desired, and generally do everything possible to aid ASSIGNEE to obtain and enforce proper patent protection for said INVENTION, and without further compensation, but at the expense of the ASSIGNEE.

DECLARATION

As an above-named inventor, I hereby declare that:

RECORDED: 01/24/2020

This declaration is directed to the United States application referenced above.

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 invinction (or claimed design) in the above-identified application for which this declaration is being submitted.

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 live (5) years, or both.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

| Signature | Date: |
|---------------------------------------|-----------------------|
| tegal Name of Inventor: Hexander ROSS | Citizeoskip: <u>M</u> |
| Server Jacquide Lan | tee 100/2010 |
| tegal Name of inventor Bogdan (ISCA | Glizenshipi <u>RO</u> |

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