505713353 10/08/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5760163

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| ALEXANDER PICL | 09/16/2019 |
| UWE FRANZ AUGST | 09/11/2019 |
| FRANZ STENGL | 09/11/2019 |
| SIGMUND NIKLAS | 08/23/2019 |

RECEIVING PARTY DATA

| Name: | MUEHLBAUER GMBH & CO. KG | |
|-----------------|--------------------------|--|
| Street Address: | JOSEF-MUEHLBAUER-PLATZ 1 | |
| City: | RODING | |
| State/Country: | GERMANY | |
| Postal Code: | 93426 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16477472 |

CORRESPONDENCE DATA

Fax Number: (248)858-4201

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: 248-858-4200

Email: CCARDINALE@shumaker.com

JOHN A. MILLER SHUMAKER, LOOP & KENDRICK **Correspondent Name:**

Address Line 1: 42690 WOODWARD AVENUE

Address Line 2: SUITE 300

Address Line 4: BLOOMFIELD HILLS, MICHIGAN 48304

| ATTORNEY DOCKET NUMBER: | 303390-232596/9A-146 525 | |
|-------------------------|--------------------------|--|
| NAME OF SUBMITTER: | JOHN A. MILLER | |
| SIGNATURE: | /John A. Miller/ | |
| DATE SIGNED: | 10/08/2019 | |

Total Attachments: 2

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> **PATENT** REEL: 050657 FRAME: 0894

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FORM 110 (R 5/97)

Docket Ref. 303390-232596/9A-146 525

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION (WITH PRIORITY RIGHTS)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: MONITORING AND CONTROL OF A MILLING OPERATION which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we, by virtue of my/our employee agreement(s) and contractual agreement(s) between our employer(s) and Muchibauer GmbH & Co. KG, hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for Muehlbauer GmbH & Co. KG. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work from my/our employer, I/we sell, assign and transfer unto:

MUEHLBAUER GmbH & Co. KG. Josef-Muchibauer-Platz 1 93426 Roding **GERMANY**

a corporation organized and existing under the laws of Germany (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the

| the designes to insert nere are | |
|--|---|
| Application No. 16/477,472 Filing | Date 11 July 2019 |
| in country the United States of America | -4401 Salv |
| of the application, on which the claim for priority will be based; | and in and to any Letters Patent that may be issued for the |
| invention in any and all countries. I/we do hereby agree to assist | Assignee in the prosecution of the application(s) and in any |
| interference, conflict, opposition or litigation which may arise in | Valving the invention or the patent or natents thereon, and to |
| execute for any and all countries any document relating to applic | stions desired from comerceding to an equipolant to the characteristic |
| identified application so Assistance may request and I have do herei | by authorize Assignee or its designee (or nominee(s)) to <u>insert here</u> |
| any corresponding equivalent | by authorize Assignee or its designee (or nominee(s)) to insert nere |
| | Who Date Towns II 2018 |
| Application No. DE 10 2017 000 290.8 Fin country Germany | ung Date |
| to the above Priority application of any country where that save | ntry's patent property must be identified and entered hereinabove |
| for recorded of this designment. The sustaine Assistance as its | esignes to translate this Assignment into all languages necessary; |
| and the request that any great I store Detect to investigate of its of | esignee to translate this Assignment into all languages necessary; |
| Come thereof heing under comment and sales has There have full - | ; and consent to the recordal of this Assignment, or a Notarial True |
| encumbered by any grant, license, or other right heretofore given | ower to make the same, but also that such assigned rights are not |
| Subscribed and Declared by me/us: | • |
| bussetned and Decidica by Inicias. | |
| At: | |
| Att. A.C. American Construction of Ass. | At: |
| this 16 day of September 2019 | this day of, 20 |
| | |
| 1 | |
| Signature: | Signature: |
| Full Name: Alexander Picl | Full Name: Uwe Franz Augst |
| Residence: Richters Kellerstrasse 21 | Residence: Richard-Wagner-Strasse 3 |
| 93142 Maxhuette-Haldhof | 92442 Wackersdorf |
| Country: Germany | Country: Germany |
| Citizenship: Germany | Citizenship: Germany |
| P. O. Address: Same as Residence | P. O. Address: Same as Residence |
| Employed By: Muchibauer GmbH & Co. KG | Employed By: Muchibauer GmbH & Co. KG |
| Of Country: Germany | Of Country: Germany |
| | |
| At: | A+. |
| At: | At: |
| | this day of |
| | |
| Signature: | Ö: |
| Full Name: Franz Stengt | Signature: |
| | Full Name: Sigmund Niklas |
| Residence: Horsterstrasse 11 92540 Altendorf-Fronhof | Residence: Bergweg 4 |
| _ | 93199 Zell |
| lan in | Country: Germany |
| | Citizenship: Germany |
| | P. O. Address: Same as Residence |
| Employed By: Muchibauer GmbH & Co. KG | Employed By: Muchibauer GmbH & Co. KG |
| Of Country: Germany | Of Country: Germany |
| | |

() Additional names and signatures are attached.

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FORM 110 (R 5/97)

Docket Ref. 303390-232596/9A-146 525

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION (WITH PRIORITY RIGHTS)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: MONITORING AND CONTROL OF A MILLING OPERATION which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we, by virtue of my/our employee agreement(s) and contractual agreement(s) between our employer(s) and Muchibauer GmbH & Co. KG, hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for Muehlbauer GmbH & Co. KG. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work from my/our employer, I/we sell, assign and transfer unto:

MUEHLBAUER GmbH & Co. KG. Josef-Muchlbauer-Platz 1 93426 Roding **GERMANY**

a corporation organized and existing under the laws of Germany (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assigned

| its designee to insert here the | | | | |
|--|---|--|--|--|
| Application No. 16/477.472 | | | | |
| At: | At: this May of Saptamber, 20 19 Signature: Full Name: Residence: Richard-Wagner-Strasse 3 92442 Wackersdorf Country: Germany P. O. Address: Same as Residence Employed By: Muehlbauer GmbH & Co. KG Of Country: Germany Germany Germany | | | |
| At: this AA day of Section 62, 20 19 Signature: Full Name: Franz Stengt Residence: Horsterstrasse 11 92540 Altendorf-Fronhof Country: Germany Citizenship: Germany P. O. Address: Same as Residence Employed By: Muchibauer GmbH & Co. KG Of Country: Germany | At: this 23 day of August , 20/9 Signature: Full Name: Signupd Niklas Residence: Bergweg 4 93199 Zell Country: Germany Citizenship: Germany P. O. Address: Same as Residence Employed By: Muchibauer GmbH & Co. KG Of Country: Germany | | | |

() Additional names and signatures are attached.

RECORDED: 10/08/2019

PATENT REEL: 050657 FRAME: 0896