

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3941946

|   |                          |
|---|--------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT           |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT               |
| <b>CONVEYING PARTY DATA</b>   |                          |
| <b>Name</b>   | <b>Execution Date</b>    |
| GERHARD HIETMANN  | 06/22/2016               |
| <b>RECEIVING PARTY DATA</b>   |                          |
| <b>Name:</b>  | KUKA ROBOTER GMBH        |
| <b>Street Address:</b>  | ZUPSPITZSTR. 140         |
| <b>City:</b>  | AUGSBURG                 |
| <b>State/Country:</b>   | GERMANY                  |
| <b>Postal Code:</b>   | 86165                    |
| <b>PROPERTY NUMBERS Total: 1</b>  |                          |
| <b>Property Type</b>  | <b>Number</b>            |
| <b>Application Number:</b>  | 15163395                 |
| <b>CORRESPONDENCE DATA</b>  |                          |
| <b>Fax Number:</b>  | (973)639-8399            |
| <i>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.</i> |                          |
| <b>Phone:</b>   | 973-596-4500             |
| <b>Email:</b>   | IPDocket@gibbonslaw.com  |
| <b>Correspondent Name:</b>  | GIBBONS P.C.             |
| <b>Address Line 1:</b>  | ONE GATEWAY CENTER       |
| <b>Address Line 4:</b>  | NEWARK, NEW JERSEY 07102 |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 113728-93015 (K133390US) |
| <b>NAME OF SUBMITTER:</b>   | THOMAS J. BEAN           |
| <b>SIGNATURE:</b>   | /Thomas J. Bean/         |
| <b>DATE SIGNED:</b>   | 06/29/2016               |
| <b>Total Attachments: 8</b>   |                          |
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| source=Assignment-93015#page2.tif   |                          |
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**DECLARATION (37 CFR 1.63) FOR UTILITY APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT**

**TITLE OF INVENTION: DETERMINING THE ROBOT AXIS ANGLE AND  
SELECTION OF A ROBOT WITH THE AID OF A CAMERA**

As the below-named inventor or joint inventor of the above-titled invention, I hereby declare that this declaration is directed to U.S. Patent Application No. 15/163,395, which was filed May 24, 2016 and claims priority under 35 § 119(a) to German Patent Application No. 10 2015 209 896.6, filed on May 29, 2015.

The above-identified U.S. patent 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

WHEREAS, **KUKA Roboter GmbH**, a corporation having its principal place of business at Zupspitzstr. 140, 86165 Augsburg, GERMANY, is desirous of acquiring the entire interest in and to said invention, said application and all patents to be obtained therefrom.

NOW, THEREFORE, for and in consideration of good and valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, I have sold, assigned, and set over, and by these presents do hereby sell, assign and set over unto the said **KUKA Roboter GmbH** (Assignee), and said Assignee's legal representatives, successors, the entire right, title and interest, for the whole world, in and to said invention and said applications, as well as any subsequent application which claims priority based upon the filing date of any of said applications above identified and the patents, both domestic and foreign, that may or shall result therefrom including the right to claim in respect of any subsequent United States and foreign patent applications and patents, the priority date of any of said applications under any United States statute and international convention or treaty; and I do hereby authorize and request the issuance of said patents, domestic and foreign, conformably to the terms of this Agreement.

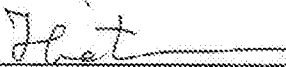
UPON SAID CONSIDERATION, I do hereby covenant and agree with said Assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that will at any time upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings and so such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining provisional, original, continuation, continuation-in-part, divisional, reissued, re-examined or extended patent of the United States or of any and all foreign countries on said invention, and in

enforcing any rights or chooses in action accruing as a result of such applications or patents, including but not limited to, giving testimony in any proceedings or transactions involving such applications or patents, and executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind and inure to the benefit of the assigns and legal representatives of all parties hereto.

I hereby acknowledge that my 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.

LEGAL NAME OF INVENTOR OR JOINT INVENTOR

22.06.16  
Date

  
Gerhard Hietmann

Under the Paperwork Reduction Act of 1996, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |  |                        |                          |
|---|--|------------------------|--------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b>   |  | Attorney Docket Number | 113728-93015 (K133390US) |
|   |  | Application Number     |                          |
| Title of Invention  | Determining the Robot Axis Angle and Selection of a Robot with the Aid of a Camera |                        |                          |
| The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application. |  |                        |                          |

**Secrecy Order 37 CFR 5.2**

Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

**Inventor Information:**

|   |                  |                      |             |        |
|---|------------------|----------------------|-------------|--------|
| Inventor 1 <span style="float: right;">Remove</span>  |                  |                      |             |        |
| Legal Name  |                  |                      |             |        |
| Prefix  | Given Name       | Middle Name          | Family Name | Suffix |
|   | Gerhard          |                      | HIETMANN    |        |
| Residence Information (Select One) <input type="radio"/> US Residency <input checked="" type="radio"/> Non US Residency <input type="radio"/> Active US Military Service    |                  |                      |             |        |
| City  | Herbertshofen    | Country of Residence | DE          |        |
| Mailing Address of Inventor:  |                  |                      |             |        |
| Address 1   | Beethovenstr, 23 |                      |             |        |
| Address 2   |                  |                      |             |        |
| City  | Herbertshofen    | State/Province       |             |        |
| Postal Code   | 86405            | Country              | DE          |        |
| All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. <span style="float: right;">Add</span> |                  |                      |             |        |

**Correspondence Information:**

|   |                         |           |              |
|---|-------------------------|-----------|--------------|
| Enter either Customer Number or complete the Correspondence Information section below.<br>For further information see 37 CFR 1.33(a). |                         |           |              |
| <input type="checkbox"/> An Address is being provided for the correspondence information of this application.                         |                         |           |              |
| Customer Number   | 26345                   |           |              |
| Email Address   | IPDocket@gibbonslaw.com | Add Email | Remove Email |

**Application Information:**

|   |  |   |                          |
|---|--|---|--------------------------|
| Title of the Invention                  | Determining the Robot Axis Angle and Selection of a Robot with the Aid of a Camera |   |                          |
| Attorney Docket Number                  | 113728-93015 (K133390US)   | Small Entity Status Claimed               | <input type="checkbox"/> |
| Application Type                        | Nonprovisional   |   |                          |
| Subject Matter                          | Utility  |   |                          |
| Total Number of Drawing Sheets (if any) | 3  | Suggested Figure for Publication (if any) | 1                        |

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|   |  |                          |
|---|--|--------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> | Attorney Docket Number   | 113728-93015 (K133390US) |
|   | Application Number   |                          |
| Title of Invention                        | Determining the Robot Axis Angle and Selection of a Robot with the Aid of a Camera |                          |

**Filing By Reference :**

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

|  |                          |  |
|--|--------------------------|--|
| Application number of the previously filed application | Filing date (YYYY-MM-DD) | Intellectual Property Authority or Country |
|  |                          |  |

**Publication Information:**

Request Early Publication (Fee required at time of Request 37 CFR 1.219)

**Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

**Representative Information:**

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer number will be used for the Representative information during processing.

|                    |  |  |   |
|--------------------|--|--|---|
| Please Select One: | <input checked="" type="radio"/> Customer Number | <input type="radio"/> US Patent Practitioner | <input type="radio"/> Limited Recognition (37 CFR 11.9) |
| Customer Number    | 26345  |  |   |

**Domestic Benefit/National Stage Information:**

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c) or indicate National Stage entry from a PCT application. Providing this information in the application data sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the application number blank.

|   |                 |                          |                                       |
|---|-----------------|--------------------------|---------------------------------------|
| Prior Application Status  |                 |                          | <input type="button" value="Remove"/> |
| Application Number  | Continuity Type | Prior Application Number | Filing Date (YYYY-MM-DD)              |
|   |                 |                          |                                       |
| Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the <b>Add</b> button. |                 |                          | <input type="button" value="Add"/>    |

**Foreign Priority Information:**

|   |  |                          |
|---|--|--------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> | Attorney Docket Number   | 113728-93015 (K133390US) |
|   | Application Number   |                          |
| Title of Invention                        | Determining the Robot Axis Angle and Selection of a Robot with the Aid of a Camera |                          |

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55(d). When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(h)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

| Application Number | Country <sup>1</sup> | Filing Date (YYYY-MM-DD) | Access Code <sup>2</sup> (if applicable) |
|--------------------|----------------------|--------------------------|--|
| 10 2015 209 896.6  | DE                   | 2015-05-29               |  |

Additional Foreign Priority Data may be generated within this form by selecting the **Add** button.

## Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

## Authorization to Permit Access:

Authorization to Permit Access to the Instant Application by the Participating Offices

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |  |                          |
|---|--|--------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> | Attorney Docket Number   | 113728-93015 (K133390US) |
|   | Application Number   |                          |
| Title of Invention                        | Determining the Robot Axis Angle and Selection of a Robot with the Aid of a Camera |                          |

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the instant patent application is filed access to the instant patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the instant patent application is filed to have access to the instant patent application.

In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the instant patent application with respect to: 1) the instant patent application-as-filed; 2) any foreign application to which the instant patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the instant patent application; and 3) any U.S. application-as-filed from which benefit is sought in the instant patent application.

In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing this Authorization.

## Applicant information:

|  |  |  |                                       |
|--|--|--|---------------------------------------|
| Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.  |  |  |                                       |
| <b>Applicant 1</b>   |  |  | <input type="button" value="Remove"/> |
| If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section. |  |  |                                       |
|  |  |  | <input type="button" value="Clear"/>  |
| <input checked="" type="radio"/> Assignee  | <input type="radio"/> Legal Representative under 35 U.S.C. 117 | <input type="radio"/> Joint Inventor                                   |                                       |
| <input type="radio"/> Person to whom the inventor is obligated to assign.  |  | <input type="radio"/> Person who shows sufficient proprietary interest |                                       |
| If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:  |  |  |                                       |
|  |  |  |                                       |
| Name of the Deceased or Legally Incapacitated Inventor :   |  |  |                                       |
| If the Applicant is an Organization check here. <input checked="" type="checkbox"/>  |  |  |                                       |
| Organization Name  | KUKA Roboter GmbH  |  |                                       |
| <b>Mailing Address Information For Applicant:</b>  |  |  |                                       |
| Address 1  | Zugspitzstr. 140   |  |                                       |
| Address 2  |  |  |                                       |
| City   | Augsburg   | State/Province   |                                       |
| Country  | DE   | Postal Code  | 86165                                 |
| Phone Number   |  | Fax Number   |                                       |



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|  |  |                        |                                    |
|--|--|------------------------|------------------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b>  |  | Attorney Docket Number | 113728-93015 (K133390US)           |
|  |  | Application Number     |                                    |
| Title of Invention   | Determining the Robot Axis Angle and Selection of a Robot with the Aid of a Camera |                        |                                    |
| Email Address  |  |                        |                                    |
| Additional Applicant Data may be generated within this form by selecting the Add button. |  |                        | <input type="button" value="Add"/> |

**Assignee Information including Non-Applicant Assignee Information:**

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

|  |            |                |             |                                       |
|--|------------|----------------|-------------|---------------------------------------|
| <b>Assignee 1</b>  |            |                |             |                                       |
| Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication. |            |                |             |                                       |
|  |            |                |             | <input type="button" value="Remove"/> |
| If the Assignee or Non-Applicant Assignee is an Organization check here.   |            |                |             | <input type="checkbox"/>              |
| Prefix   | Given Name | Middle Name    | Family Name | Suffix                                |
|  |            |                |             |                                       |
| <b>Mailing Address Information For Assignee including Non-Applicant Assignee:</b>  |            |                |             |                                       |
| Address 1  |            |                |             |                                       |
| Address 2  |            |                |             |                                       |
| City   |            | State/Province |             |                                       |
| Country <sup>1</sup>   |            |                | Postal Code |                                       |
| Phone Number   |            | Fax Number     |             |                                       |
| Email Address  |            |                |             |                                       |
| Additional Assignee or Non-Applicant Assignee Data may be generated within this form by selecting the Add button.  |            |                |             | <input type="button" value="Add"/>    |

**Signature:**

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications.

|   |        |                  |      |                     |                                    |
|---|--------|------------------|------|---------------------|------------------------------------|
| Signature   |        | /Thomas J. Bean/ |      | Date (YYYY-MM-DD)   | 2016-05-24                         |
| First Name  | Thomas | Last Name        | Bean | Registration Number | 44528                              |
| Additional Signature may be generated within this form by selecting the Add button. |        |                  |      |                     | <input type="button" value="Add"/> |

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

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|---|--|--------------------------|
| <b>Application Data Sheet 37 CFR 1.76</b> | Attorney Docket Number   | 113728-93015 (K133390US) |
|   | Application Number   |                          |
| Title of Invention                        | Determining the Robot Axis Angle and Selection of a Robot with the Aid of a Camera |                          |

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**