PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREAS SEDLMAYR	05/25/2018

RECEIVING PARTY DATA

Name:	KUKA DEUTSCHLAND GMBH
Street Address:	ZUGSPITZSTRASSE 140
City:	AUGSBURG
State/Country:	GERMANY
Postal Code:	86165

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15775619

CORRESPONDENCE DATA

Fax Number: (203)865-0297

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: 2037776628

Email: docket@bachlap.com

Correspondent Name: BACHMAN & LAPOINTE, P.C.

Address Line 1: 900 CHAPEL STREET

Address Line 2: SUITE 1201

Address Line 4: NEW HAVEN, CONNECTICUT 06510

ATTORNEY DOCKET NUMBER:	18-197
NAME OF SUBMITTER:	WILLIAM B. SLATE
SIGNATURE:	/William B. Slate, #37238/
DATE SIGNED:	05/31/2018

Total Attachments: 2

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PATENT 504938349 REEL: 045947 FRAME: 0588

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ASSIGNMENT

I, Andreas Sedlmayr of Kaiser-Ludwig-Strasse 4c, 82256 Fürstenfeldbruck, Germany, have invented certain improvements, inventions, and discoveries (hereinafter the "Invention") in a "Method and Computer Program for Correcting Errors in a Manipulator System" described in International Application No. PCT/EP2016/001859, filed November 9, 2016 (which entered the US National Stage as 15775619).

At the time of Invention, said Invention was assigned to or under obligation of assignment to KUKA Deutschland GmbH (formerly KUKA Roboter GmbH) of Zugspitzstrasse 140, 86165 Augsburg, Germany (hereinafter Assignee).

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned, the undersigned have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over unto Assignee, its successors and assigns, the entire worldwide right, title and interest in and to:

said Invention in all forms and embodiments thereof;

the Application and all applications based thereon or otherwise for said Invention, including direct or indirect nonprovisional of, national stage, divisional, continuation, continuation-in-part, or substitute applications, and including the right to file all said applications under the provisions of the Paris Convention for the Protection of Industrial Property, Patent Cooperation Treaty or other international convention or agreement;

all patents and reissues, reexaminations, or extensions thereof to be obtained in all countries and jurisdictions upon said Invention from all said applications; and

to all such rights relating to prior infringements, retroactive or past royalties, provisional rights, and other retroactive or past relief or compensation.

The undersigned hereby authorize and request the issuing authorities in all countries and jurisdictions to issue all patents on all said applications to Assignee or its successors and assigns.

The undersigned further agree, without any further payment or compensation by

Assignee or its successors and assigns, to communicate to Assignee, its successors and assigns
and to their representatives and agents, all facts relating to said invention or inventions including
evidence for interference purposes or for other legal proceedings whenever requested; testify in
all interference or other legal proceedings, whenever requested; execute and deliver, on request,
all lawful papers required to make all of the foregoing provisions effective; and generally do

everything possible to aid Assignee, its successors or assigns and nominees to obtain and enforce proper patent protection for said invention or inventions in all countries and jurisdictions.

IN TESTIMONY WHEREOF, the undersigned has-hereunto set his hand and seal on the date after his signature.

(L.S.) // <u>&dlug~~</u> Andreas Sedlmavr 2 of 2