

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/072847

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> <i>G05B 19/4065</i> (2006.01)i		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols) G05B; B23Q		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1679566 A1 (FANUC LTD [JP]) 12 July 2006 (2006-07-12) abstract paragraph [0001] - paragraph [0002] paragraph [0008] - paragraph [0017] paragraph [0031] - paragraph [0069] figures	1-9
X	EP 1407853 A1 (FANUC LTD [JP]) 14 April 2004 (2004-04-14) abstract paragraph [0014] - paragraph [0017] paragraph [0019] - paragraph [0055] figures 5-8	1-9
X	WO 2007090536 A1 (COMARA KG [DE]; BLUEMEL ANDREAS [DE]; FRANKE REINER [DE]) 16 August 2007 (2007-08-16) abstract page 3, line 20 - page 7, line 27 claims figures	1-9
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search <b>30 October 2018</b>		Date of mailing of the international search report <b>07 November 2018</b>
Name and mailing address of the ISA/EP <b>European Patent Office p.b. 5818, Patentlaan 2, 2280 HV Rijswijk Netherlands</b> Telephone No. (+31-70)340-2040 Facsimile No. (+31-70)340-3016		Authorized officer <b>Abbing, Ralf</b>  Telephone No.

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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 4117637 A1 (NTN TOYO BEARING CO LTD [JP]) 05 December 1991 (1991-12-05) abstract column 2, line 7 - column 3, line 40	1-9

**INTERNATIONAL SEARCH REPORT**  
**Information on patent family members**

International application No.

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EP	1679566	A1	12 July 2006	CN	1796973	A	05 July 2006
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				US	2006142893	A1	29 June 2006
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EP	1407853	A1	14 April 2004	DE	60310661	T2	03 May 2007
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