

Title (en)  
METHOD, COMPUTER PROGRAM PRODUCT AND ROBOT CONTROLLER FOR CONFIGURING A ROBOT-OBJECT SYSTEM ENVIRONMENT,  
AND ROBOT

Title (de)  
VERFAHREN, COMPUTER-PROGRAMM-PRODUKT UND ROBOTERSTEUERUNG ZUM KONFIGURIEREN EINER ROBOTER-OBJEKT-  
SYSTEMUMGEBUNG SOWIE ROBOTER

Title (fr)  
PROCÉDÉ, PRODUIT-PROGRAMME INFORMATIQUE ET COMMANDE DE ROBOT POUR CONFIGURER UN ENVIRONNEMENT SYSTÈME  
ROBOT-OBJET, ET ROBOT

Publication  
**EP 4041503 A2 20220817 (DE)**

Application  
**EP 20828985 A 20201211**

Priority  
• EP 19215346 A 20191211  
• EP 2020085852 W 20201211

Abstract (en)  
[origin: CN115279557A] In order to be able to utilize the CAD model to adapt the authenticity in an automatic, manual-free field start-up of the robotic object system environment, the difference between the authenticity of the robotic object system environment and the digital representation thereof as the CAD model, which occurs during the configuration of the robotic object system environment (ROSU, ROSU '), is eliminated. The aim of the invention is to configure a robotic object system environment having at least one object (OB, OB ') and a robot (RB) for object manipulation and object capture, digital robot twins (DRZ, DRZ '), which digitally represent the environment of a robot object system and which control a robot for object manipulation on the basis of a control program (STP, STP'), are synchronized in demand-based (ESGB, ZSGB) and in one or two phases (ES, ZS) with respect to this, a robot in a robotic object system environment is used in an advantageous manner during object manipulation.

IPC 8 full level  
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**G05B 2219/39032** (2013.01 - EP); **G05B 2219/40323** (2013.01 - EP)

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