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

B25J 9/16 (2006.01); **B25J 13/08** (2006.01)

CPC (source: EP US)

B25J 9/1653 (2013.01 - US); **B25J 9/1671** (2013.01 - EP US); **B25J 9/1697** (2013.01 - US); **B25J 13/089** (2013.01 - US); G05B 2219/39032 (2013.01 - EP); G05B 2219/40323 (2013.01 - EP)

Citation (search report)

See references of WO 2021116459A2

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3834998 A1 20210616; CN 115279557 A 20221101; EP 4041503 A2 20220817; US 2022388167 A1 20221208; WO 2021116459 A2 20210617; WO 2021116459 A9 20210916

DOCDB simple family (application)

EP 19215346 A 20191211; CN 202080085590 A 20201211; EP 2020085852 W 20201211; EP 20828985 A 20201211; US 202017781119 A 20201211