Title (en)
METHOD AND DEVICE FOR DETERMINING A TIME-OPTIMAL TRAJECTORY

Title (de)
VERFAHREN UND VORRICHTUNG ZUR BESTIMMUNG EINER ZEITOPTIMALEN TRAJEKTORIE

Title (fr)
PROCÉDÉ ET DISPOSITIF POUR DÉTERMINER UNE TRAJECTOIRE OPTIMALE EN TERMES DE TEMPS

Publication
EP 4366917 A1 20240515 (DE)

Application
EP 22748218 A 20220707

Priority
- AT 505652021 A 20210709
- AT 2022060244 W 20220707

Abstract (en)
[origin: WO2023279132A1] The invention relates to a method, a device and a computer program product for determining a time-optimal trajectory before the start of movement for a movement of an industrial robot, predefined by movement parameters, on a path. The method comprises dividing the path into one or more partial paths and carrying out a predetermined number of repetitions of the following steps: calculating a time-optimal trajectory for each of the partial paths, joining the time-optimal trajectories for all partial paths, checking whether predetermined limit values are not exceeded and whether the fastest movement has been found, and varying one or more of the movement parameters.

IPC 8 full level
B25J 9/16 (2006.01)

CPC (source: AT EP KR US)
B25J 9/1653 (2013.01 - KR US); **B25J 9/1664** (2013.01 - AT EP KR US); G05B 2219/40463 (2013.01 - EP KR);
G05B 2219/40466 (2013.01 - EP KR)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2023279132 A1 20230112; AT 525225 A1 20230115; AT 525225 B1 20231015; CN 117615885 A 20240227; EP 4366917 A1 20240515;
JP 2024526689 A 20240719; KR 20240032103 A 20240308; US 2024238974 A1 20240718

DOCDB simple family (application)
AT 2022060244 W 20220707; AT 505652021 A 20210709; CN 202280048426 A 20220707; EP 22748218 A 20220707;
JP 2024501163 A 20220707; KR 20247004413 A 20220707; US 202218577355 A 20220707