

Title (en)

DIGITAL TWIN-BASED PROCESS CONTROL IN AN IOT NETWORK

Title (de)

DIGITAL-TWIN BASIERTE PROZESSSTEUERUNG IN EINEM IOT-NETZWERK

Title (fr)

COMMANDE DE PROCESSUS BASÉE SUR UN JUMENT NUMÉRIQUE DANS UN RÉSEAU IDO

Publication

EP 4154070 A1 20230329 (DE)

Application

EP 21746377 A 20210709

Priority

- EP 20187963 A 20200727
- EP 2021069195 W 20210709

Abstract (en)

[origin: WO2022022992A1] A node of a network for controlling a technical system is configured to receive a transaction comprising control commands that are intended to be executed by the technical system, determine a validation request for the at least one transaction, transmit the transaction and the validation request to a digital simulation of the technical system, and execute the control commands in the digital simulation in order to establish whether the transaction is able to be executed in accordance with the validation request.

IPC 8 full level

G05B 19/05 (2006.01); **G06F 11/36** (2006.01); **G06F 21/60** (2013.01); **G06N 7/00** (2006.01); **H04L 9/32** (2006.01); **H04L 9/40** (2022.01); **H04W 4/70** (2018.01); **H04W 8/00** (2009.01)

CPC (source: EP US)

G05B 19/042 (2013.01 - EP US); **H04L 9/3239** (2013.01 - EP); **H04L 9/50** (2022.05 - EP); **H04L 63/123** (2013.01 - EP); **H04W 4/70** (2018.02 - EP); **G05B 2219/25011** (2013.01 - US); **G06N 20/00** (2019.01 - EP); **H04W 84/18** (2013.01 - EP)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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