

Title (en)

METHOD, SYSTEM, AND COMPUTER PROGRAM PRODUCT FOR ANALYZING PRODUCTION AND/OR PROCESS-ENGINEERING PROCESSES AND/OR PROCESS STEPS IN A PLANT

Title (de)

VERFAHREN, SYSTEM UND COMPUTERPROGRAMM-PRODUKT ZUR ANALYSE VON PRODUKTIONSTECHNISCHEN UND/ODER VERFAHRENSTECHNISCHEN PROZESSEN UND/ODER PROZESSSCHITTEN IN EINER ANLAGE

Title (fr)

PROCÉDÉ, SYSTÈME ET PRODUIT PROGRAMME D'ORDINATEUR D'ANALYSE DE PROCESSUS ET/OU D'ÉTAPES DE PROCESSUS TECHNIQUES DE PRODUCTION ET/OU DE PROCÉDÉ DANS UNE INSTALLATION

Publication

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Application

EP 14742241 A 20140724

Priority

- DE 102013112896 A 20131122
- EP 2014065944 W 20140724

Abstract (en)

[origin: WO2015074772A1] The problem addressed by the invention is that of creating a solution that enables the improvement of the analysis of at least one production or process-engineering process and/or process step proceeding in a single plant, in particular a power plant and/or industrial plant, and/or in a combination of a plurality of plants, in particular power plants. This problem is solved by a method according to the invention comprising the following steps: determining measurement data of physical and/or chemical state parameters of the process or process step; transferring the measurement data into a memory element; importing the measurement data from the memory element into at least one autonomous, computer-assisted computing unit; processing the measurement data by using a first data management application in the computing unit, wherein virtual characteristic data are calculated from the measurement data; transferring the virtual characteristic data from the computing unit to the memory element; calculating further characteristic values from the virtual characteristic data and the measurement data by means of a second data management application in the computing unit(s); and using the characteristic values and/or the virtual characteristic data and/or the measurement data for an analysis of the process/process step in the plant. Thus, a system of autonomous computing units operating in parallel is produced, which computing units determine the sequence of the computations by self-organization and compress the information of real and virtual measurement points into characteristic figures of the overall system.

IPC 8 full level

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CPC (source: EP KR US)

G05B 13/048 (2013.01 - EP KR); **G05B 23/0251** (2013.01 - EP KR US); **G06N 5/043** (2013.01 - EP KR); **G06Q 50/06** (2013.01 - EP KR); **H02J 3/004** (2020.01 - EP US); **H02J 3/381** (2013.01 - EP US); **H02J 2300/20** (2020.01 - EP KR US); **Y04S 10/50** (2013.01 - EP)

Citation (search report)

See references of WO 2015074772A1

Designated contracting state (EPC)

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BA ME

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DOCDB simple family (application)

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