

Title (en)

METHOD AND DEVICE FOR CALCULATING PROCESS VARIABLES OF AN INDUSTRIAL PROCESS

Title (de)

VERFAHREN UND VORRICHTUNG ZUR BERECHNUNG VON PROZESSGRÖSSEN EINES INDUSTRIELLEN PROZESSES

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT DE CALCULER DES VARIABLES DE PROCESSUS D'UN PROCESSUS INDUSTRIEL

Publication

EP 1342138 A1 20030910 (DE)

Application

EP 01995542 A 20011128

Priority

- DE 0104467 W 20011128
- DE 10059567 A 20001130

Abstract (en)

[origin: WO0244822A1] The invention relates to a method and a device for calculating in advance the process variables of an industrial process. The method, which consists of at least one empirical model and a core model, is subsequently adapted and optimised using a model that has a partial inverse structure in relation to the core model. The empirical models are optimised by means of adaption or training algorithms, which, in addition to known process parameters, have the empirical variables calculated by the partial inverse core model as basic input variables.

IPC 1-7

G05B 19/418; G05B 13/02

IPC 8 full level

G05B 13/04 (2006.01); **G05B 17/02** (2006.01); **G05B 19/418** (2006.01)

CPC (source: EP US)

G05B 13/042 (2013.01 - EP US); **G05B 17/02** (2013.01 - EP US); **G05B 19/41885** (2013.01 - EP US); **G05B 2219/32017** (2013.01 - EP US); **G05B 2219/42136** (2013.01 - EP US); **Y02P 90/02** (2015.11 - EP US)

Citation (search report)

See references of WO 0244822A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0244822 A1 20020606; DE 10059567 A1 20020613; EP 1342138 A1 20030910; JP 2004514998 A 20040520; US 2003208287 A1 20031106

DOCDB simple family (application)

DE 0104467 W 20011128; DE 10059567 A 20001130; EP 01995542 A 20011128; JP 2002546924 A 20011128; US 44962503 A 20030530