

Title (en)  
OPTIMIZATION METHOD AND DEVICE

Title (de)  
OPTIMIERUNGSVERFAHREN UND VORRICHTUNG

Title (fr)  
METHODE ET DISPOSITIF D'OPTIMISATION

Publication  
**EP 1062549 A1 20001227 (EN)**

Application  
**EP 99906434 A 19990302**

Priority  
• IL 9900119 W 19990302  
• IL 12360798 A 19980310

Abstract (en)  
[origin: WO9946646A1] A method and a device for optimizing a process for manufacturing a certain end product with a certain system are presented. The end product is defined by certain desired conditions of its N parameters. The system is defined by certain desired conditions of its M parameters. The manufacturing process is defined by certain desired conditions of its Q working parameters. At least one of these M or Q parameters depends variably on at least another one of these M or Q parameters according to a predetermined mathematical model. Initially, a starting point and an optimum condition of the optimization are specified. The starting point is in the form of such an initial value of at least one of the Q or M parameters that each of corresponding initial values of the N parameters and of the other M and Q parameters satisfies the respective desired condition. The optimum condition is such that at least one of the desired conditions of the N parameters is satisfied. Then, simulation procedures are performed by changing the at least one initial specified value of the Q or M parameters, so as to cause changes of the initial value of at least one of the N parameters that defines the specified optimum condition. Concurrently, the mathematical model is operated for calculating current values of the M and Q parameters. The calculated current values are analyzed for adjusting at least one of them so as to satisfy the optimum condition.

IPC 1-7  
**G05B 13/04**

IPC 8 full level  
**G05B 13/04** (2006.01)

CPC (source: EP)  
**G05B 13/042** (2013.01)

Citation (search report)  
See references of WO 9946646A1

Designated contracting state (EPC)  
DE GB NL

DOCDB simple family (publication)  
**WO 9946646 A1 19990916**; AU 2637999 A 19990927; EP 1062549 A1 20001227; IL 123607 A0 19981030

DOCDB simple family (application)  
**IL 9900119 W 19990302**; AU 2637999 A 19990302; EP 99906434 A 19990302; IL 12360798 A 19980310