

Title (en)
OPTIMIZATION METHOD AND DEVICE

Title (de)
OPTIMIERUNGSVERFAHREN UND VORRICHTUNG

Title (fr)
METHODE ET DISPOSITIF D'OPTIMISATION

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Application
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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.

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