

Title (en)

METHOD FOR MONITORING THE MACHINING OF, AND APPARATUS FOR MACHINING, A WORKPIECE WITH A HIGH-ENERGY PROCESSING BEAM

Title (de)

VERFAHREN ZUM ÜBERWACHEN DER BEARBEITUNG SOWIE VORRICHTUNG ZUM BEARBEITEN EINES WERKSTÜCKS MIT EINEM HOCHENERGETISCHEN BEARBEITUNGSSTRAHL

Title (fr)

PROCÉDÉ DE SURVEILLANCE D'USINAGE ET DISPOSITIF D'USINAGE D'UNE PIÈCE AU MOYEN D'UN FAISCEAU D'USINAGE DE HAUTE ÉNERGIE

Publication

EP 2714322 A1 20140409 (DE)

Application

EP 12726585 A 20120601

Priority

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Abstract (en)

[origin: WO2012163545A1] A method for monitoring the machining of a workpiece with a high-energy processing beam comprises the steps of: recording an electronically evaluable image which contains at least the point of incidence of the processing beam on the workpiece; generating actual image data; comparing the actual image data with nominal image data; generating an image error signal if the actual image data deviate from the nominal image data; detecting, synchronously with the generation of the actual image data, the actual processing parameters controlling the process to be monitored; comparing the actual processing parameters with nominal processing parameters; generating a process error signal if the actual processing parameters deviate from the nominal processing parameters; generating an error signal when an image error signal and a processing error signal are present simultaneously; and initiating measures if an image error signal is present.

IPC 8 full level

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CPC (source: EP)

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See references of WO 2012163545A1

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