

Title (en)  
METHOD FOR CONTROLLING, MONITORING AND CHECKING A FORMING OPERATION OF A METAL-FORMING MACHINE TOOL,  
ESPECIALLY A RIVETING MACHINE

Title (de)  
VERFAHREN ZUM STEUERN, ÜBERWACHEN UND ÜBERPRÜFEN EINES UMFORMVORGANGES EINER UMFORMMASCHINE,  
INSBESONDERE NIETMASCHINE

Title (fr)  
PROCEDE PERMETTANT DE COMMANDER, DE SURVEILLER ET DE CONTROLER UNE OPERATION DE FORMAGE D'UNE MACHINE DE  
FORMAGE, NOTAMMENT D'UNE RIVETEUSE

Publication  
**EP 1064111 B1 20021016 (DE)**

Application  
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Priority  
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• EP 9901365 W 19990303

Abstract (en)  
[origin: DE19812133A1] The method involves measuring the change in pressure or force that occurs when the machine's working piston (4) comes into contact with the workpiece (27, to detect the start of a change of shape, e.g. the start of the riveting process. A conversion force is displayed or computed throughout the whole process by measuring pressure or differential pressure. An Independent claim is also included for a shaping machine, especially a riveting machine.

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**B21J 15/28; B21J 9/20**

IPC 8 full level  
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