

Title (en)
METHOD FOR PRODUCING A MOLDED PART PROVIDED WITH A THROUGH-HOLE AND DEVICE FOR CARRYING OUT THE METHOD

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES MIT EINEM DURCHGEHENDEN LOCH VERSEHENEN FORMTEILS UND VORRICHTUNG ZUR DURCHFÜHRUNG DES VERFAHRENS

Title (fr)
PROCÉDÉ DE FABRICATION D'UNE PIÈCE MOULÉE POURVUE D'UN TROU TRAVERSANT ET DISPOSITIF POUR LA MISE EN OUVRE DU PROCÉDÉ

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Application
EP 09775793 A 20091002

Priority
• CH 2009000316 W 20091002
• CH 16072008 A 20081010

Abstract (en)
[origin: WO2010040238A1] In order to produce a molded part provided with a through-hole, a rod-shaped blank (R) is pushed forward coaxially through a guide (1) by a defined length into a cavity (2) and then fixed in place. Then the end region of the blank (R) is axially compressed using a swage (3) and reshaped into a disk (S) delimited by the die (2). Thereafter, in a penetration step, a disk core (KS) having the same cross-sectional shape as the blank (R) is ejected out of the disk (S) using a punch (31) and pushed into the guide (1) and moved back together with the unshaped part of the blank. Then, the penetrated disk (S) is severed from the disk core (KS) and the molded part is removed from the cavity (2). During the penetration step, the disk (S) present in the cavity (2) is subjected to an axial pressure (FNH) in the disk core ejection direction and the blank (R) is subjected to an axial counter-force (FG) opposite to the disk core ejection direction. In this way, the tensile or shearing stresses occurring in the disk are compensated by the superposition of compressive stress, and the formation of fractures, burrs or other deformations on the inner contour of the molded part are prevented.

IPC 8 full level
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CPC (source: EP KR US)
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