Title (en)

METHOD AND DEVICE FOR OBTAINING CLOSE WORK PIECE TOLERANCES IN FORGING PROCESSES, IN PARTICULAR IN ISOTHERMIC FORGING PROCESSES

Publication

EP 0172300 B1 19880803 (DE)

Application

EP 85100918 A 19850130

Priority

CH 103584 A 19840302

Abstract (en)

[origin: US4601186A] A process and apparatus for achieving narrow workpiece tolerances in isothermal drop-forging, the relative movement of the two die halves (1, 2) in an xy plane perpendicular to the pressing direction z being measured and monitored by means of an optical measuring device (10, 11, 12, 14) or mechanical measuring device (14, 15, 16) and being corrected by means of a mechanical adjusting device (6, 17, 21, 23, 24, 25, 26) for one die half (2). A first workpiece is forged, and the divergence from the nominal value is measured, with the die halves (1, 2) closed, the die halves (1, 2) are opened, the first workpiece is removed, the position of one die half (2) is corrected, and a new workpiece is introduced and forged completely, without the workpiece having to be cooled and remeasured and without the die having to be cooled and reheated.

IPC 1-7

B21J 5/00; B21K 31/00

IPC 8 full level

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CPC (source: EP US)

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