

Title (en)  
FOUR-DIE FORGING DEVICE

Title (de)  
VIERBACKEN-SCHMIEDEVORRICHTUNG

Title (fr)  
DISPOSITIF DE FORGEAGE À QUATRE PERCUTEURS

Publication  
**EP 2014390 B1 20100324 (DE)**

Application  
**EP 07747785 A 20070124**

Priority  
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Abstract (en)  
[origin: WO2008091176A1] The invention relates to metal forming and can be used for forging billets and blanks by means of forging presses and radial-swaging machines. Four dies are mounted on holders which are provided with inclined planes and antifriction plates arranged thereon. The holders of the top and lower dies are kinematically connected to the holders of the lateral dies. Centring guides are mounted on the inclined planes of the top and lower die holders or on the inclined planes of the lateral die holders. They are placed in centring grooves which are formed by the groove walls of the lateral die holders or the top and lower die holders and the side planes of respective antifriction plates. The device also comprises lateral separating guides provided with an F-shaped cross-section. The width of the working face of each die is equal to 0.5-0.9 the width of the supporting surface thereof. The ratio between the total contact area of the antifriction plates of the lateral die holders with the antifriction plates of the top and lower holders in the closed device ( $S_{<SUB>1</SUB>}$ ) and the total area of the projection of the working faces of the lateral dies on the longitudinal symmetry plane ( $S_{<SUB>2</SUB>}$ ) of the device is defined by the formula  $S_{<SUB>1</SUB>}/S_{<SUB>2</SUB>}=2.5$ . Said invention makes it possible to extend the service life of the device.

IPC 8 full level  
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Cited by  
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