

Title (en)  
CLAMPING DEVICE FOR A HOLLOW SHAFT

Title (de)  
SPANNVORRICHTUNG FÜR EINEN HOHLSCHAFT

Title (fr)  
DISPOSITIF DE SERRAGE POUR ARBRE CREUX

Publication  
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Application  
**EP 03794797 A 20030822**

Priority  
• DE 0302830 W 20030822  
• DE 10241613 A 20020907

Abstract (en)  
[origin: WO2004024380A1] The invention relates to a clamping device arranged on a machine tool and used for a hollow shaft (2) provided with slanted clamping inclinations extending inside a receiving element for said hollow shaft (2), comprising clamping claws (6) which are mounted in the working spindle (5) of the machine tool, which can be actuated by means of a clamping head (3) which is guided in the working spindle (5) and which is axially displaceable therein and on which clamping inclinations (7), which have correspondingly slanted inclined surfaces (13) used for clamping purposes, come to rest. The clamping device (1) comprises a retaining rod which is associated with the working spindle (5) and on which retaining tongues (9), extending parallel to said clamping claws (6) and which are elastic in a radial direction, are configured and are provided with retaining surfaces which are correspondingly inclined in relation to the clamping inclinations (7), said retaining surfaces being adjacent to the clamping inclinations (7) of the hollow shaft (5) placed on the machine tool. Each of the retaining tongues (9), when seen from the working spindle (5), has a centering surface (11), which comes to rest on the free end of the hollow shaft (2), located in an axially upstream position from the retaining surface (10) on a radially outer surface.

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IPC 8 full level  
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