

Title (en)  
Burnishing machine for crankshafts

Title (de)  
Festwalzmaschine für Kurbelwellen

Title (fr)  
Machine d'écrouissage pour vilebrequins

Publication  
**EP 1221355 A3 20040128 (DE)**

Application  
**EP 01128791 A 20011204**

Priority  
DE 10060218 A 20001204

Abstract (en)  
[origin: CA2364372A1] SUMMARY A roll-hardening machine for crankshafts with hard-rolling tools (2) which each have a hard-rolling roller head (1) and a counter-support roller that are each detachably attached to the ends (17) of appropriate scissors arms (3) by means of two clamping blocks (15) wherein respectively a first of the two clamping blocks (15) is positioned on the front surface (16) of the end (17) of the scissor arm (3) and the second clamping block is located at a right angle to the first (15) on the side surface (16) of this same scissor arm (3) on the tool side, characterised in that the first clamping block (15) is supported on the front surface (16) at the end (17) of the respective scissors arm (3) such that it can slide in the direction of the appropriate hard-rolling tool (1), the hard-rolling roller head (1) is supported moveably at the location of the second clamping block on the scissors arm (3), by having guide grooves on its front surfaces facing the scissors arm (3), wherein prismatic blocks of the scissors arm (3) engage and the second clamping block for the counter-support roller head is supported such that it can move elastically in the clamping direction at its scissors arm. Figure 1 is intended for the Summary.

IPC 1-7  
**B24B 39/04**; **B24B 49/16**

IPC 8 full level  
**B24B 39/04** (2006.01)

CPC (source: EP US)  
**B24B 39/04** (2013.01 - EP US); **Y10T 29/17** (2015.01 - EP US)

Citation (search report)

- [DA] EP 0881041 A2 19981202 - HEGENSCHIEDT MFD GMBH [DE]
- [A] US 4559798 A 19851224 - HAYASHI TAKEHIKO [JP], et al
- [A] DE 573094 C 19330327 - KRUPP AG

Cited by  
EP1577058A1; FR2867707A1

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DOCDB simple family (publication)  
**DE 10060218 A1 20020613**; CA 2364372 A1 20020604; EP 1221355 A2 20020710; EP 1221355 A3 20040128; JP 2002307300 A 20021023; MX PA01012469 A 20020611; US 2002073756 A1 20020620; US 6619090 B2 20030916

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