

Title (en)

ROLLING DEVICE OF A ROLLING MILL FOR CRANKSHAFTS

Title (de)

FESTWALZGERÄT EINER FESTWALZMASCHINE FÜR KURBELWELLEN

Title (fr)

DISPOSITIF DE CYLINDRAGE D'UNE MACHINE DE CYLINDRAGE POUR VILEBREQUINS

Publication

EP 1699591 B1 20091111 (DE)

Application

EP 04804123 A 20041221

Priority

- EP 2004014525 W 20041221
- DE 10361738 A 20031229

Abstract (en)

[origin: WO2005063438A1] The invention relates to a rolling device (8) of a rolling mill (1) for crankshafts (3), comprising two opposing arms, one arm (9) supporting a roll head (13) and the other arm (10) a back-up roll head (14). The latter (14) comprises two back-up rolls (21, 22) with parallel axes and the roll head (13) has two rolls (23, 24), which engage in the radii or grooves of the lifting bearing journals (5) or main bearing journals (6) of crankshafts (3). According to the invention, an axial guide roll (27) is provided on the roll head (13) in a scissor configuration of the rolling device (8), said roll being positioned centrally in relation to the roll head (13), with the rotational axis (7) of said roll lying perpendicularly to the rotational axis (4) of the crankshaft (3). The diameter of said roll (28) is significantly smaller than the distance (29a) between the oil flanges (25, 26) of a main bearing journal (6) or lifting bearing journal (5) of the crankshaft (3).

IPC 8 full level

B24B 5/42 (2006.01); **B24B 39/04** (2006.01)

CPC (source: EP)

B24B 5/42 (2013.01); **B24B 39/04** (2013.01)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 2005063438 A1 20050714; CN 1902028 A 20070124; DE 10361738 B3 20050901; DE 502004010369 D1 20091224; EP 1699591 A1 20060913; EP 1699591 B1 20091111; JP 2007516846 A 20070628; JP 4499745 B2 20100707

DOCDB simple family (application)

EP 2004014525 W 20041221; CN 200480039333 A 20041221; DE 10361738 A 20031229; DE 502004010369 T 20041221; EP 04804123 A 20041221; JP 2006546030 A 20041221