

Title (en)
DEEP-ROLLING ROLLER HEAD

Title (de)
FESTWALZROLLENKOPF

Title (fr)
TÊTE DE GALETAGE

Publication
EP 2303509 B1 20131204 (DE)

Application
EP 09757124 A 20090603

Priority
• DE 2009000784 W 20090603
• DE 202008007563 U 20080605

Abstract (en)
[origin: WO2009146690A1] The invention relates to a deep-rolling roller head (1) of a deep-rolling apparatus for deep-rolling radii or passes (4) at the bearing journals (5) of crankshafts using deep-rolling rollers (3), which are held at the deep-rolling roller head in the circumferential direction (6) on both sides of the contact point with the bearing journal (5) by roller cages (7) and are guided therein freely rotatably, wherein the roller cages (7) are held at the deep-rolling roller head (1) by roller holders (10). At least one roller cage (7) for the deep-rolling roller head (1) is designed as a cage roller (9), and for the deep-rolling roller (3) a retaining device is provided in the form of a retaining metal plate (14).

IPC 8 full level
B24B 39/04 (2006.01); **B21H 7/18** (2006.01)

CPC (source: EP KR US)
B21H 7/18 (2013.01 - KR); **B21H 7/185** (2013.01 - EP US); **B24B 39/04** (2013.01 - KR); **B24B 39/045** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 202008007563 U1 20081002; CN 102105268 A 20110622; CN 102105268 B 20140312; EP 2303509 A1 20110406;
EP 2303509 B1 20131204; JP 2011521789 A 20110728; JP 5417435 B2 20140212; KR 20110020899 A 20110303;
US 2011092349 A1 20110421; WO 2009146690 A1 20091210; WO 2009146690 A8 20110303

DOCDB simple family (application)
DE 202008007563 U 20080605; CN 200980120998 A 20090603; DE 2009000784 W 20090603; EP 09757124 A 20090603;
JP 2011511972 A 20090603; KR 20117000170 A 20090603; US 99632809 A 20090603