

Title (en)

ROLL GRINDING DEVICE AND METHOD FOR GRINDING A ROLL

Title (de)

WALZENSCHLEIFVORRICHTUNG UND VERFAHREN ZUM SCHLEIFEN EINER WALZE

Title (fr)

DISPOSITIF DE RECTIFICATION DE CYLINDRE ET PROCÉDÉ DE RECTIFICATION D'UN CYLINDRE

Publication

EP 3086901 A2 20161102 (DE)

Application

EP 14823988 A 20141222

Priority

- DE 102013021800 A 20131223
- EP 2014078979 W 20141222

Abstract (en)

[origin: WO2015097146A2] The invention relates to a method for grinding a roll (20) by means of a roll grinding device (10). In said method, a roll (20) is ground by means of a grinding tool (40) of the roll grinding device (10), at least one measurable value of at least one variable that relates to the surface quality of the roll (20) is measured during the grinding operation, and at least one operating parameter of the roll grinding device (10) is adjusted during the grinding operation in accordance with the measured variable. The invention further relates to a roll grinding device (10) for grinding a roll (20), comprising a roll mount (30) that includes two bearings (32, 34) designed to rotatably support the roll (20), also comprising a drive (36) designed to rotatably drive the roll (20) at an adjustable roll speed, as well as a grinding tool (40) designed to accommodate and rotatably drive a grinding member (42) at an adjustable grinding member speed and position the grinding member (42) against the roll. The roll grinding device (10) further comprises a measuring apparatus (70) designed to measure measurable values of a variable that relates to the surface quality of the roll (20), as well as a control unit (80) designed to control the roll grinding device and, during the grinding operation, trigger the measuring apparatus (70) to measure at least one measurable value, and adjust at least one operating parameter of the roll grinding device (10) in accordance with the measured variable.

IPC 8 full level

B24B 5/37 (2006.01); **B24B 5/04** (2006.01); **B24B 49/04** (2006.01); **B24B 49/12** (2006.01)

CPC (source: CN EP)

B24B 5/045 (2013.01 - CN); **B24B 5/37** (2013.01 - CN EP); **B24B 49/04** (2013.01 - CN EP); **B24B 49/12** (2013.01 - CN EP)

Citation (search report)

See references of WO 2015097146A2

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2015097146 A2 20150702; **WO 2015097146 A3 20150813**; CN 105848826 A 20160810; CN 105848826 B 20180413; EP 3086901 A2 20161102; EP 3086901 B1 20230607; EP 3086901 C0 20230607; ES 2951593 T3 20231023; JP 2017500216 A 20170105; JP 6337125 B2 20180606

DOCDB simple family (application)

EP 2014078979 W 20141222; CN 201480070687 A 20141222; EP 14823988 A 20141222; ES 14823988 T 20141222; JP 2016542207 A 20141222