

Title (en)
METHOD FOR MANUFACTURING ROLL FOR REDUCING, AND ROLL FOR REDUCING

Title (de)
VERFAHREN ZUR HERSTELLUNG EINER REDUZIERUNGSWALZE UND REDUZIERUNGSWALZE

Title (fr)
PROCÉDÉ DE FABRICATION D'UN CYLINDRE DE RÉDUCTION ET CYLINDRE DE RÉDUCTION

Publication
EP 2692453 A1 20140205 (EN)

Application
EP 12765966 A 20120328

Priority
• JP 2011079759 A 20110331
• JP 2012058058 W 20120328

Abstract (en)
There is provided a method for manufacturing a roll for reducing rolling capable of suppressing the occurrence of fin flaws and edge flaws. A roll for reducing rolling that is used on a three-roll type reducing-rolling mill is prepared. Next, a ridge part (52) formed in the adjacent portion between a caliber part and a flange part is rounded by cutting the ridge part (52) while rotating the roll for reducing rolling around the roll axis. In the step of rounding the ridge part, in a ridge part region (RA52) within the range of 3.0 mm in a roll axis direction with the top of the ridge part (52) being the center, the average of radiuses of curvature measured at a 0.5 mm pitch is made in the range of 2.5 to 3.0 mm, and the difference between the maximum value and the minimum value of the radiuses of curvature is made at most 1.0 mm.

IPC 8 full level
B21B 27/02 (2006.01); **B21B 17/14** (2006.01)

CPC (source: EP US)
B21B 27/024 (2013.01 - EP US); **B21B 17/14** (2013.01 - EP US); **Y10T 29/49544** (2015.01 - EP US)

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

DOCDB simple family (publication)
EP 2692453 A1 20140205; **EP 2692453 A4 20141119**; **EP 2692453 B1 20151230**; BR 112013023809 A2 20161213;
BR 112013023809 B1 20190402; CN 103459056 A 20131218; CN 103459056 B 20150304; JP 2012213786 A 20121108;
JP 5003833 B1 20120815; MX 2013011178 A 20131206; MX 338263 B 20160411; US 2014013815 A1 20140116; WO 2012133484 A1 20121004

DOCDB simple family (application)
EP 12765966 A 20120328; BR 112013023809 A 20120328; CN 201280013630 A 20120328; JP 2011079759 A 20110331;
JP 2012058058 W 20120328; MX 2013011178 A 20120328; US 201214008587 A 20120328