

Title (en)
ROLLING METHOD

Title (de)
WALZVERFAHREN

Title (fr)
PROCÉDÉ DE LAMINAGE

Publication
EP 3049197 B1 20180131 (EN)

Application
EP 14758807 A 20140819

Priority
• GB 201316917 A 20130924
• EP 2014067678 W 20140819

Abstract (en)
[origin: GB2518444A] A method of rolling a metal plate from an ingot or thick slab (1,2) comprises setting a work roll gap with a mechanical screw (24) and rolling the ingot or slab through a first pass to produce a rolled product (21). The rolled product (21) is removed from the roll gap and the mechanical screw (24) is used to set a reduced roll gap (34a). The rolled product (21) is rolled through the reduced roll gap (34a) over a partial pass, the partial pass extending over less than the full length of the rolled product (21) to form a further rolled product (22, 21). The steps of removing the further rolled product from the roll gap, using the mechanical screw to set a further reduced roll gap and rolling the product over a partial pass may be further repeated for a set number of iterations to produce a rolled plate. The method may further comprise turning the rolled plate and carrying out a further roll pass in a width direction of the plate. The method may also comprise a method of counting the number of revolutions of a roll determining the difference in thickness between adjacent roll gaps and deriving the length of the rolled product to be rolled at the next rolling stage.

IPC 8 full level
B21B 1/06 (2006.01); **B21B 31/24** (2006.01)

CPC (source: EP GB US)
B21B 1/00 (2013.01 - GB); **B21B 1/026** (2013.01 - US); **B21B 1/06** (2013.01 - EP US); **B21B 31/24** (2013.01 - EP US);
B21B 37/16 (2013.01 - GB); **B21B 37/26** (2013.01 - 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)
GB 201316917 D0 20131106; **GB 2518444 A 20150325**; CN 106061635 A 20161026; EP 3049197 A1 20160803; EP 3049197 B1 20180131;
US 2016271661 A1 20160922; WO 2015043837 A1 20150402

DOCDB simple family (application)
GB 201316917 A 20130924; CN 201480052739 A 20140819; EP 14758807 A 20140819; EP 2014067678 W 20140819;
US 201615077474 A 20160322