

Title (en)
METHOD AND CASTING ROLLER PLANT FOR THE SEMI-ENDLESS OR ENDLESS ROLLING BY CASTING OF A METAL IN PARTICULAR A STEEL STRIP WHICH MAY BE TRANSVERSELY SEPARATED AS REQUIRED AFTER SOLIDIFICATION

Title (de)
VERFAHREN UND GIESSWALZANLAGE ZUM SEMI-ENDLOSVALZEN ODER ENDLOSVALZEN DURCH GIESSEN EINES METALLS INSBESONDERE EINES STAHLSTRANGS, DER NACH DEM ERSTARREN BEI BEDARF QUERGETEILT WIRD

Title (fr)
PROCEDE ET INSTALLATION DE LAMINAGE DE COULEE CONTINUE POUR LE LAMINAGE SEMI-CONTINU OU CONTINU PAR COULEE D'UNE BARRE DE METAL, EN PARTICULIER D'ACIER, SEPAREE TRANSVERSALEMENT SELON LE BESOIN APRES SOLIDIFICATION

Publication
EP 1519798 B1 20060816 (DE)

Application
EP 03729965 A 20030502

Priority
• DE 10230512 A 20020706
• DE 10249704 A 20021025
• EP 0304599 W 20030502

Abstract (en)
[origin: US7478664B2] A method for semi-endless or endless rolling by casting a metal strand, especially a steel strand, which is cut to length as required after solidification, wherein the cut lengths of cast strand are fed into a roller hearth furnace for heating and homogenizing at rolling temperature and are then fed at rolling temperature into a rolling mill to be rolled out. The continuous casting is continued without interruption during the rolling operation, and a sufficient buffer time for a roll change is maintained in the rolling mill. For carrying out a roll change, the casting rate is reduced as a function of the feed rate of the rolling mill and/or the roll-changing time, and/or the buffer length of the roller hearth furnace, and/or the final rolled thickness after the strand has been cut to length.

IPC 8 full level
B21B 1/46 (2006.01); **B21B 13/22** (2006.01); **B21B 1/26** (2006.01); **B21B 31/10** (2006.01); **B21B 37/00** (2006.01); **B21B 45/00** (2006.01)

CPC (source: EP US)
B21B 1/46 (2013.01 - EP US); **B21B 13/22** (2013.01 - EP US); **B21B 1/26** (2013.01 - EP US); **B21B 1/466** (2013.01 - EP US); **B21B 31/10** (2013.01 - EP US); **B21B 37/005** (2013.01 - EP US); **B21B 45/004** (2013.01 - EP US); **Y10T 29/49989** (2015.01 - EP US); **Y10T 29/49991** (2015.01 - EP US)

Cited by
CN102198451A; DE102016216725A1; WO2018041651A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004004938 A1 20040115; AT E336308 T1 20060915; AU 2003240590 A1 20040123; BR 0311351 A 20050222; CA 2491676 A1 20040115; CA 2491676 C 20101214; CN 100415396 C 20080903; CN 1665611 A 20050907; DE 50304672 D1 20060928; EG 23476 A 20051119; EP 1519798 A1 20050406; EP 1519798 B1 20060816; ES 2270037 T3 20070401; MX PA05000312 A 20050425; RU 2005102828 A 20050720; RU 2316401 C2 20080210; TW 200405833 A 20040416; TW I288676 B 20071021; US 2005251989 A1 20051117; US 2006243420 A1 20061102; US 7152661 B2 20061226; US 7478664 B2 20090120

DOCDB simple family (application)
EP 0304599 W 20030502; AT 03729965 T 20030502; AU 2003240590 A 20030502; BR 0311351 A 20030502; CA 2491676 A 20030502; CN 03816016 A 20030502; DE 50304672 T 20030502; EG 2003050500 A 20030528; EP 03729965 A 20030502; ES 03729965 T 20030502; MX PA05000312 A 20030502; RU 2005102828 A 20030502; TW 92109659 A 20030425; US 41841106 A 20060504; US 51808504 A 20041215