

Title (en)
ENERGY-SAVING ROLLING MILL TRAIN AND ENERGY-SAVING PROCESS FOR OPERATING A COMBINED CASTING AND ROLLING STATION

Title (de)
ENERGIESPARENDE WALZSTRASSE UND ENERGIESPARENDES VERFAHREN ZUM BETRIEB EINER GIESS-WALZ-VERBUNDANLAGE

Title (fr)
TRAIN DE LAMINOIR ÉCONOME EN ÉNERGIE ET PROCÉDÉ ÉCONOME EN ÉNERGIE PERMETTANT DE FAIRE FONCTIONNER UNE INSTALLATION COMBINÉE DE COULÉE ET DE LAMINAGE

Publication
EP 2437900 A1 20120411 (DE)

Application
EP 10724421 A 20100531

Priority

- EP 2010057524 W 20100531
- EP 09161954 A 20090604
- EP 10724421 A 20100531

Abstract (en)
[origin: EP2258491A1] The tool e.g. roll stand (10) has working rolls (12) for processing rolling stock and driven by an electric motor (20) with superconducting windings. The working rolls are mechanically connected with a shaft (25) of the electric motor, which comprises a common cooling system (26). The rolls are mechanically coupled with each other by a branched gear that is connected with the shaft, where the rolling stock is made of steel, aluminum, copper or titanium. Independent claims are also included for the following: (1) a rolling mill for processing a rolling stock (2) a casting and rolling composite system for continuous production of hot strip (3) a method for operating a casting and rolling composite system (4) a method for improving performance of a rolling mill.

IPC 8 full level
B21B 35/00 (2006.01); **H02K 55/00** (2006.01)

CPC (source: EP US)
B21B 35/00 (2013.01 - EP US); **B21B 35/04** (2013.01 - EP US); **B21B 1/26** (2013.01 - EP US); **B21B 1/46** (2013.01 - EP US); **B21B 27/021** (2013.01 - EP US); **B21B 35/02** (2013.01 - EP US); **B21B 2015/0014** (2013.01 - EP US); **B21B 2015/0057** (2013.01 - EP US); **B21B 2265/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2010139659A1

Cited by
EP2710159B1

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 SE SI SK SM TR

DOCDB simple family (publication)
EP 2258491 A1 20101208; EP 2258491 A8 20110316; BR PI1010788 A2 20160329; CN 102802825 A 20121128; CN 102802825 B 20150204; EP 2437900 A1 20120411; EP 2437900 B1 20140625; RU 2011153722 A 20130720; US 2012073345 A1 20120329; US 9174255 B2 20151103; WO 2010139659 A1 20101209

DOCDB simple family (application)
EP 09161954 A 20090604; BR PI1010788 A 20100531; CN 201080024434 A 20100531; EP 10724421 A 20100531; EP 2010057524 W 20100531; RU 2011153722 A 20100531; US 201013376312 A 20100531