

Title (en)
HOT-ROLLING MACHINE FOR WIRE-ROD AND THE LIKE

Title (de)
MASCHINE ZUM WARMWALZEN VON WALZDRÄHTEN UND DERGLEICHEN

Title (fr)
LAMINOIR À CHAUD POUR FIL MACHINE ET D'AUTRES PRODUITS SEMBLABLES

Publication
EP 2673097 A1 20131218 (EN)

Application
EP 12710322 A 20120207

Priority
• IT TV20110018 A 20110207
• IB 2012050553 W 20120207

Abstract (en)
[origin: WO2012107881A1] A hot-rolling machine (1) for wire rods and the like which comprises a number of rolling units (2) that are arranged in cascaded to one after another along the wire-rod feeding path (p) so that each rolling unit (2) can plastically deform the high-temperature wire rod (b) that moves along said path (p); each rolling unit (2) being provided with: a rolling stand (3) that is arranged on the wire-rod feeding path (p) and is provided with two counter-rotating and opposed milling rollers (4) that are arranged one beside the other, locally substantially parallel and substantially tangent to one another so as to form/delimit a rolling groove or throttling (4a), through which the wire rod (b) to be hot-rolled is forced to pass; and a mechanical gear reduction unit (5), which is arranged beside the rolling stand (3) and is structured so as to be able to drive simultaneously in rotation the two rolls (4) about the respective longitudinal axes (L); the mechanical gear reduction unit (5) of each rolling unit (2) being structured so as to form, with the corresponding rolling stand (3), a single sectional elementary module (2) that is structured for being aligned with other similar sectional elementary modules (2), along the wire-rod feeding path (p) and for being mechanically coupled to the immediately adjacent sectional elementary modules (2), in so as to compose/form a catenary of rolling units (2 which are reciprocally connected so as to transmit torque in cascade from one another.

IPC 8 full level
B21B 27/03 (2006.01); **B21B 31/26** (2006.01); **B21B 35/02** (2006.01)

CPC (source: EP US)
B21B 1/18 (2013.01 - EP US); **B21B 35/02** (2013.01 - EP US); **B21B 1/16** (2013.01 - EP US); **B21B 1/163** (2013.01 - EP US); **B21B 13/103** (2013.01 - EP US); **B21B 31/26** (2013.01 - EP US)

Citation (search report)
See references of WO 2012107881A1

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)
WO 2012107881 A1 20120816; CN 103501929 A 20140108; CN 103501929 B 20160615; EP 2673097 A1 20131218; EP 2673097 B1 20160203; IT 1403827 B1 20131031; IT TV20110018 A1 20120808; RU 2013141175 A 20150320; US 2014041432 A1 20140213

DOCDB simple family (application)
IB 2012050553 W 20120207; CN 201280007819 A 20120207; EP 12710322 A 20120207; IT TV20110018 A 20110207; RU 2013141175 A 20120207; US 201213984184 A 20120207