

Title (en)

EQUIPMENT AND PROCESS FOR THE PICKLING AND METALLIC COATING OF A METAL STRIP

Title (de)

VORRICHTUNG UND VERFAHREN ZUR BEIZ- UND METALLISCHEN BESCHICHTUNG EINES METALLBANDES

Title (fr)

INSTALLATION ET PROCÉDÉ DE DÉCAPAGE ET DE REVÊTEMENT MÉTALLIQUE D'UNE BANDE MÉTALLIQUE

Publication

EP 3126539 A1 20170208 (FR)

Application

EP 15703485 A 20150126

Priority

- EP 14290086 A 20140331
- EP 14290104 A 20140411
- EP 2015051427 W 20150126

Abstract (en)

[origin: WO2015149960A1] The present invention describes equipment for the pickling and metallic coating, such as galvanizing, of a continuously running metal strip, successively comprising along the run direction at least a pickling unit, a furnace and a coating unit, and for which the metal strip entering the pickling unit is by default a hot-rolled product. The equipment according to the invention is characterized in that: - a rolling mill for elongation/limited reduction of strip thickness, referred to as a skin-pass rolling mill, is positioned between the pickling unit and the furnace; - the furnace imposes a heat cycle on the strip that makes it possible to control a restoration of strip structure (that is to say free of strip recrystallization) and imposes, at the outlet of the furnace, a heating of the strip to the temperature that is required at the inlet of the metallic coating unit. A pickling and metallic coating process is also proposed.

IPC 8 full level

C23C 2/02 (2006.01); **C21D 8/02** (2006.01); **C21D 8/04** (2006.01); **C23C 2/40** (2006.01)

CPC (source: EP US)

C21D 8/0278 (2013.01 - EP); **C23C 2/02** (2013.01 - EP US); **C23C 2/022** (2022.08 - EP US); **C23C 2/0224** (2022.08 - EP US); **C23C 2/024** (2022.08 - EP US); **C23C 2/40** (2013.01 - EP); **C21D 8/0226** (2013.01 - EP); **C21D 8/0236** (2013.01 - EP)

Citation (search report)

See references of WO 2015149960A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2015149960 A1 20151008; CN 106460136 A 20170222; CN 113846281 A 20211228; EP 3126539 A1 20170208; EP 3126539 B1 20201125; ES 2856229 T3 20210927; MX 2016012711 A 20170331; PL 3126539 T3 20210614; RU 2016138425 A 20180504; RU 2016138425 A3 20181004

DOCDB simple family (application)

EP 2015051427 W 20150126; CN 201580017944 A 20150126; CN 202111184286 A 20150126; EP 15703485 A 20150126; ES 15703485 T 20150126; MX 2016012711 A 20150126; PL 15703485 T 20150126; RU 2016138425 A 20150126