

Title (en)

DEVICE AND METHOD FOR CARRYING OUT CONTROLLED OXIDATION OF METAL STRIPS IN A CONTINUOUS FURNACE

Title (de)

VORRICHTUNG UND VERFAHREN ZUR AUSFÜHRUNG EINER KONTROLLIERTEN OXIDATION VON METALLBÄNDERN IN EINEM DURCHLAUFOFEN

Title (fr)

DISPOSITIF ET PROCEDE POUR REALISER UNE OXYDATION CONTROLEE DE BANDES METALLIQUES DANS UN FOUR DE TRAITEMENT EN CONTINU

Publication

EP 3397786 A1 20181107 (FR)

Application

EP 16822660 A 20161219

Priority

- FR 1563467 A 20151230
- EP 2016081730 W 20161219

Abstract (en)

[origin: WO2017114682A1] The invention relates to a chamber (1) for the controlled oxidation of metal strips in a furnace for annealing a continuous production line of strips which are hot-coated, for example by galvanisation, the oxidation chamber allowing the oxidation of the metal strips by means of an oxidising gas injected on at least one of the faces of a strip (15), the oxidation chamber comprising oxidation portions (17) extending over the width and/or length thereof, each portion comprising at least one blow opening (4) and at least one suction opening (5) between which an oxidising gas circulates, each portion being controllable in a different way so as to adjust the oxidation induced on the strip over the width and length of the oxidation chamber.

IPC 8 full level

C21D 9/56 (2006.01)

CPC (source: EP US)

C21D 9/561 (2013.01 - EP US); **F27D 7/00** (2013.01 - US); **F27D 9/00** (2013.01 - US); **C21D 1/767** (2013.01 - EP US); **C21D 9/56** (2013.01 - EP US); **F27D 2019/0003** (2013.01 - US); **F27D 2019/0031** (2013.01 - US)

Citation (search report)

See references of WO 2017114682A1

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 2017114682 A1 20170706; EP 3397786 A1 20181107; EP 3397786 B1 20191113; ES 2770080 T3 20200630; FR 3046423 A1 20170707; FR 3046423 B1 20180413; PT 3397786 T 20200225; US 11131004 B2 20210928; US 2019010575 A1 20190110

DOCDB simple family (application)

EP 2016081730 W 20161219; EP 16822660 A 20161219; ES 16822660 T 20161219; FR 1563467 A 20151230; PT 16822660 T 20161219; US 201616067236 A 20161219