

Title (en)

ANNEALING INSTALLATION WITH M-SHAPED STRIP TREATMENT TUNNEL

Title (de)

AUSGLÜHINSTALLATION MIT M-FÖRMIGEM STREIFENBEHANDLUNGSTUNNEL

Title (fr)

INSTALLATION DE RECUIT DOTÉE D'UN TUNNEL DE TRAITEMENT DE RUBAN EN FORME DE M

Publication

**EP 2580360 B1 20140402 (EN)**

Application

**EP 11723742 A 20110526**

Priority

- NL 2004883 A 20100614
- NL 2011050364 W 20110526

Abstract (en)

[origin: WO2011159149A1] An annealing installation for the continuous annealing of metal strip guided through the installation, comprising an entrance chute 2, a first top roller chamber 3, a heating station 4, 5, 6, a cooling station 7, 8, a second top roller chamber 9 and a discharge chute 10 together delimiting an M-shaped meandering tunnel with four legs connected with each other via the two top roller chambers and a lower turning section. The entrance chute extends along the first one of the legs, the heating and the cooling stations extend along the second one of the legs, the lower turning section and the third one of the legs, and the discharge chute extends along the fourth one of the legs. Strip feeding and discharging means are provided for continuously guiding the strip as a free-hanging loop between the two top roller chambers through the heating and cooling stations during a process of annealing.

IPC 8 full level

**C21D 9/56** (2006.01); **C21D 1/74** (2006.01); **C21D 9/573** (2006.01); **F27B 9/28** (2006.01)

CPC (source: EP US)

**C21D 9/52** (2013.01 - US); **C21D 9/561** (2013.01 - EP US); **C21D 9/565** (2013.01 - EP US); **C21D 9/573** (2013.01 - EP US); **F27B 9/28** (2013.01 - EP US); **C21D 1/74** (2013.01 - EP US)

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 2011159149 A1 20111222**; CN 103025898 A 20130403; CN 103025898 B 20150429; EP 2580360 A1 20130417; EP 2580360 B1 20140402; NL 2004883 C2 20111215; US 2013127095 A1 20130523

DOCDB simple family (application)

**NL 2011050364 W 20110526**; CN 201180029333 A 20110526; EP 11723742 A 20110526; NL 2004883 A 20100614; US 201113703938 A 20110526