

Title (en)
APPARATUS AND METHOD FOR QUENCHING RODS AND TUBES

Title (de)
VORRICHTUNG UND VERFAHREN ZUM ABKÜHLEN VON STÄBEN UND RÖHREN

Title (fr)
APPAREIL ET PROCÉDÉ DE REFROIDISSEMENT DE TIGES ET TUBES

Publication
EP 3189167 A1 20170712 (EN)

Application
EP 15791773 A 20150831

Priority

- IT VI20140219 A 20140901
- IT 2015000206 W 20150831

Abstract (en)
[origin: WO2016035103A1] The present invention relates to a apparatus for statically quenching a product (1) coming from a rolling plant, comprising a seat for housing the product (1) so that, when the product (1) is housed there, its main development axis (A) coincides with the positioning axis (Z), a series of nozzles (4) arranged around the positioning axis (Z), along a curvilinear surface (3), open at the bottom, and adjustable so as to dispense a flow which is tangential to the surface of the product (1). The invention also relates to a process for static quenching of the product, implementable by such apparatus.

IPC 8 full level
C21D 9/08 (2006.01); **C21D 1/667** (2006.01)

CPC (source: CN EP US)
C21D 1/667 (2013.01 - CN EP US); **C21D 9/0075** (2013.01 - CN); **C21D 9/08** (2013.01 - CN EP US); **C21D 9/085** (2013.01 - EP US)

Citation (search report)
See references of WO 2016035103A1

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 2016035103 A1 20160310; CN 107109504 A 20170829; CN 107109504 B 20180828; EP 3189167 A1 20170712; EP 3189167 B1 20190828; ES 2759355 T3 20200508; RU 2017106755 A 20181003; US 2017283898 A1 20171005

DOCDB simple family (application)
IT 2015000206 W 20150831; CN 201580054341 A 20150831; EP 15791773 A 20150831; ES 15791773 T 20150831; RU 2017106755 A 20150831; US 201515507979 A 20150831