

Title (en)  
HYDRAULIC DEVICE WHICH IS USED TO DESCALE WARM ROLLING PRODUCTS

Title (de)  
HYDRAULISCHE VORRICHTUNG ZUM ENTZUNDERN VON WARMEM WALZGUT

Title (fr)  
DISPOSITIF HYDRAULIQUE POUR LE DECALAMINAGE DE MATERIAU LAMINE CHAUD

Publication  
**EP 1718424 B1 20070801 (DE)**

Application  
**EP 04715276 A 20040227**

Priority  
EP 2004001968 W 20040227

Abstract (en)  
[origin: WO2005082555A1] The invention relates to a device which is used to descale warm rolling products (17) which can be displaced in relation to the device by high pressure water projection. Said device comprises at least one row of nozzle heads which cover the width of the rolling products, said row of nozzle heads comprising several nozzle heads (20). Each nozzle head is driven in a rotational manner by a motor about a rotational axis (A) which is essentially perpendicular to the surface to the rolling products and comprises at least two nozzles (1-8) which are disposed in an eccentric manner in relation to the rotational axis. The invention is characterised in that the nozzles (1-8) of each nozzle head (20) are arranged as close as constructively possible on the periphery (25) of the nozzle head in such a manner that the nozzle head produces an injection image on the surface of the rolling product, said injection image at least touching the injection image of the nozzle head which is next in the row of nozzle heads.

IPC 8 full level  
**B21B 45/08** (2006.01)

CPC (source: EP US)  
**B05B 13/0484** (2013.01 - EP US); **B21B 45/08** (2013.01 - EP US); **B05B 1/14** (2013.01 - EP US); **B05B 7/0892** (2013.01 - EP US); **Y10T 29/4544** (2015.01 - EP US)

Cited by  
WO2013159786A1; DE102014109160B4; DE102008047029A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005082555 A1 20050909**; AT E368532 T1 20070815; CA 2556992 A1 20050909; CA 2556992 C 20101019; CN 1925934 A 20070307; CN 1925934 B 20100428; DE 502004004538 D1 20070913; EP 1718424 A1 20061108; EP 1718424 B1 20070801; ES 2289488 T3 20080201; MX PA06009715 A 20070326; US 2007277358 A1 20071206; US 7958609 B2 20110614

DOCDB simple family (application)  
**EP 2004001968 W 20040227**; AT 04715276 T 20040227; CA 2556992 A 20040227; CN 200480042150 A 20040227; DE 502004004538 T 20040227; EP 04715276 A 20040227; ES 04715276 T 20040227; MX PA06009715 A 20040227; US 59019304 A 20040227