

Title (en)  
DEVICE FOR COOLING METAL SHEETS AND STRIPS

Title (de)  
VORRICHTUNG ZUM KÜHLEN VON BLECHEN UND BÄNDERN

Title (fr)  
DISPOSITIF POUR REFROIDIR DES TOLES ET DES FEUILLARDS

Publication  
**EP 1729900 A1 20061213 (DE)**

Application  
**EP 05707285 A 20050209**

Priority  
• EP 2005001296 W 20050209  
• DE 102004015741 A 20040329

Abstract (en)  
[origin: WO2005105334A1] Disclosed is a device (1) for cooling metal sheets and strips during the production thereof, particularly following rolling thereof. Said device (1) comprises a feeding duct (2) for delivering a cooling medium, especially water. Said feeding duct (2) is connected to a housing (3) inside which two nozzle rails (4, 5) are disposed so as to be movable relative to one another. Said two nozzle rails (4, 5) can be arranged at a short distance (a) from each other, thereby forming a nozzle gap (6) for the cooling medium, said nozzle gap (6) having a rectangular cross section. At least one element (8) that forms a barrier for the cooling medium is placed in the housing (3) between the point of entrance (7) of the cooling medium into the housing (3) and the nozzle gap (6).

IPC 8 full level  
**B21B 45/02** (2006.01); **B05B 1/04** (2006.01); **B05B 1/30** (2006.01); **B05C 5/00** (2006.01); **B05C 5/02** (2006.01)

CPC (source: EP KR US)  
**B05B 1/04** (2013.01 - EP US); **B05B 1/30** (2013.01 - EP US); **B21B 45/0209** (2013.01 - KR); **B21B 45/0215** (2013.01 - KR); **B21B 45/0218** (2013.01 - KR); **B21B 45/0233** (2013.01 - KR); **C21D 8/02** (2013.01 - KR); **B05C 5/0262** (2013.01 - EP US); **B21B 45/0233** (2013.01 - EP US)

Citation (search report)  
See references of WO 2005105334A1

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

DOCDB simple family (publication)  
**WO 2005105334 A1 20051110**; AT E416044 T1 20081215; BR PI0509196 A 20070918; CA 2561760 A1 20051110; CA 2561760 C 20111025; CN 100471590 C 20090325; CN 1938111 A 20070328; DE 102004015741 A1 20051020; DE 502005006140 D1 20090115; EP 1729900 A1 20061213; EP 1729900 B1 20081203; ES 2315840 T3 20090401; JP 2007530290 A 20071101; JP 4781348 B2 20110928; KR 101121995 B1 20120309; KR 20060128923 A 20061214; RU 2006133645 A 20080327; RU 2365443 C2 20090827; TW 200531757 A 20051001; TW I324540 B 20100511; UA 85873 C2 20090310; US 2008264073 A1 20081030; US 7690215 B2 20100406; ZA 200605450 B 20070926

DOCDB simple family (application)  
**EP 2005001296 W 20050209**; AT 05707285 T 20050209; BR PI0509196 A 20050209; CA 2561760 A 20050209; CN 200580010191 A 20050209; DE 102004015741 A 20040329; DE 502005006140 T 20050209; EP 05707285 A 20050209; ES 05707285 T 20050209; JP 2007505402 A 20050209; KR 20067014631 A 20060720; RU 2006133645 A 20050209; TW 94104320 A 20050215; UA A200611340 A 20050209; US 59495505 A 20050209; ZA 200605450 A 20060703