

Title (en)

Cooling method and cooling bed for rolled products

Title (de)

Kühlverfahren für Walzgut und hiermit korrespondierendes Kühlbett

Title (fr)

Procédé et lit de refroidissement pour produits laminés

Publication

EP 1046436 A3 20031217 (DE)

Application

EP 00107140 A 20000410

Priority

DE 19917725 A 19990420

Abstract (en)

[origin: EP1046436A2] Rolled product cooling on a cooling bed, involves initial air cooling, water spray mist cooling and final air drying and cooling during transverse transport. A rolled product (2) is cooled on a cooling bed by transporting it transversely to its longitudinal axis (3) while being subjected to air cooling in an initial section (6), water spray mist cooling in a middle section (7) and air drying and air cool in an end section (8). An Independent claim is also included for a cooling bed for carrying out the above process.

IPC 1-7

B21B 43/02

IPC 8 full level

B21B 45/02 (2006.01); **B21B 43/00** (2006.01); **B21B 43/02** (2006.01); **B21B 43/08** (2006.01)

CPC (source: EP US)

B21B 43/02 (2013.01 - EP US); **B21B 43/00** (2013.01 - EP US); **B21B 43/08** (2013.01 - EP US)

Citation (search report)

- [XA] SU 1187341 A1 19890407 - UK GI PO PROEKTIROVANIYU METAL [SU]
- [XA] US 3648996 A 19720314 - YONEZAWA TOSHIYA, et al
- [A] GB 1139633 A 19690108 - DEMAG AG
- [A] GB 1133969 A 19681120 - SIEMAG SIEGENER MASCH BAU
- [XA] PATENT ABSTRACTS OF JAPAN vol. 010, no. 120 (C - 343) 6 May 1986 (1986-05-06)

Cited by

EP2644719A1; WO2013143925A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1046436 A2 20001025; **EP 1046436 A3 20031217**; **EP 1046436 B1 20051005**; AT E305828 T1 20051015; DE 19917725 A1 20001102; DE 19917725 B4 20050224; DE 50011274 D1 20051110; JP 2000312914 A 20001114; US 6237385 B1 20010529

DOCDB simple family (application)

EP 00107140 A 20000410; AT 00107140 T 20000410; DE 19917725 A 19990420; DE 50011274 T 20000410; JP 2000117980 A 20000419; US 55133800 A 20000418