

Title (en)
COOLING OF ROLLED MATERIAL

Title (de)
KÜHLUNG EINES WALZGUTS

Title (fr)
REFROIDISSEMENT D'UN PRODUIT LAMINÉ

Publication
EP 3615237 A2 20200304 (DE)

Application
EP 18719050 A 20180314

Priority
• EP 17168241 A 20170426
• EP 2018056437 W 20180314

Abstract (en)
[origin: WO2018197100A2] The invention relates to a chilled beam (1) for cooling rolled material (5), moved in a transport direction (3) and in particular for reducing temperature differences in the temperature of the rolled material (5) transversely to the direction of transport (3). The chilled beam (1) comprises several full jet nozzles (11) by means of which a coolant beam of a coolant with an approximately constant jet diameter can be distributed to the rolling stock (5) in the direction of distribution (15). The invention relates to a cooling device (35) comprising at least two chilled beams (1) of said type.

IPC 8 full level
B21B 45/02 (2006.01)

CPC (source: EP US)
B21B 45/0218 (2013.01 - EP US); **B21B 45/0233** (2013.01 - EP US); **B21B 37/44** (2013.01 - US); **B21B 37/74** (2013.01 - US);
B21B 2027/103 (2013.01 - US); **B22D 11/1246** (2013.01 - US)

Citation (search report)
See references of WO 2018197100A2

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)
EP 3395463 A1 20181031; EP 3395463 B1 20191225; CN 110536761 A 20191203; CN 110536761 B 20220201; EP 3615237 A2 20200304;
JP 2020517458 A 20200618; JP 6946458 B2 20211006; US 11358195 B2 20220614; US 11786949 B2 20231017; US 2020047230 A1 20200213;
US 2022226873 A1 20220721; WO 2018197100 A2 20181101; WO 2018197100 A3 20181227

DOCDB simple family (application)
EP 17168241 A 20170426; CN 201880027555 A 20180314; EP 18719050 A 20180314; EP 2018056437 W 20180314;
JP 2019555876 A 20180314; US 201816607399 A 20180314; US 202217716000 A 20220408