

Title (en)
COOLING ROLLER WAY FOR IMPROVING COOLING UNIFORMITY OF SPINNING COIL AND USAGE METHOD

Title (de)
KÜHLROLLENBAHN ZUR VERBESSERUNG DER KÜHLGLEICHMÄSSIGKEIT EINER SPINNSPULE UND VERWENDUNGSVERFAHREN

Title (fr)
CHEMIN DE ROULEAU DE REFROIDISSEMENT POUR AMÉLIORER L'UNIFORMITÉ DE REFROIDISSEMENT D'UNE BOBINE DE FILAGE ET PROCÉDÉ D'UTILISATION

Publication
EP 4186605 A1 20230531 (EN)

Application
EP 21938790 A 20210803

Priority
• CN 2021110165 W 20210803
• CN 202110466469 A 20210428

Abstract (en)
A cooling roller way for improving the cooling uniformity of a spinning coil and a usage method. The cooling roller way comprises a roller way body (1) and several guiding mechanisms (2) installed at both sides of the roller way body (1), the guiding mechanisms (2) at both sides of the roller way body (1) being staggered. The roller way body (1) is used to transport a coil (3), and the guiding mechanisms (2) are used to change the running trajectory of the coil (3), so that overlapping points (31) of the coil (3) are uniformly distributed.

IPC 8 full level
B21B 45/02 (2006.01)

CPC (source: CN EP)
B21B 45/0203 (2013.01 - CN); **B21C 47/08** (2013.01 - EP); **B21C 47/10** (2013.01 - EP); **B21C 47/146** (2013.01 - EP);
B21C 47/262 (2013.01 - EP); **C21D 9/5732** (2013.01 - EP); **C21D 9/5737** (2013.01 - EP); **B21B 2045/0212** (2013.01 - CN)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4186605 A1 20230531; **EP 4186605 A4 20240612**; CN 113042552 A 20210629; JP 2023542202 A 20231005; JP 7497524 B2 20240610;
KR 20230042589 A 20230328; WO 2022227325 A1 20221103

DOCDB simple family (application)
EP 21938790 A 20210803; CN 202110466469 A 20210428; CN 2021110165 W 20210803; JP 2023518333 A 20210803;
KR 20237004180 A 20210803