

Title (en)
FIXED TYPE HOT COIL THERMAL INSULATION HEAT TREATMENT DEVICE

Title (de)
FIXE THERMISCHE WARMSPULEN-ISOLIERUNGSWÄRMEBEHANDLUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE TRAITEMENT PAR LA CHALEUR, À ISOLATION THERMIQUE, À BOBINE À CHAUD DE TYPE FIXE

Publication
EP 3686298 A4 20201118 (EN)

Application
EP 18857961 A 20180920

Priority
• CN 201710853613 A 20170920
• CN 201810632228 A 20180619
• CN 2018106718 W 20180920

Abstract (en)
[origin: EP3686298A1] A fixed type thermal coil heat insulation heat treatment device, comprising: a steel coil tray (1); at least one steel coil bearing support (2), which is disposed on the steel coil tray; and a thermal insulation cover (3), covering the steel coil bearing support, the inner cavity volume of the thermal insulation cover being larger than the total volume of at least one steel coil (100) and the steel coil bearing support. The lower end of the thermal insulation cover is movably connected to the steel coil tray. According to the fixed type hot coil thermal insulation heat treatment device, after coiling is completed, a steel coil is immediately subjected to thermal insulation treatment, the intermediate transfer time is reduced, and heat of the steel coil itself is used for performing a soaking and slow cooling heat treatment process on the steel coil, thereby achieving the purposes of high efficiency, energy conservation, and improvement of the yield.

IPC 8 full level
F27B 11/00 (2006.01); **C21D 9/663** (2006.01); **C21D 9/673** (2006.01)

CPC (source: EP KR)
B21B 45/00 (2013.01 - EP KR); **C21D 1/34** (2013.01 - EP); **C21D 1/74** (2013.01 - EP); **C21D 1/84** (2013.01 - EP); **C21D 9/563** (2013.01 - KR); **C21D 9/665** (2013.01 - EP KR); **C21D 9/673** (2013.01 - EP); **C21D 9/677** (2013.01 - EP); **C21D 10/00** (2013.01 - EP); **F27B 11/00** (2013.01 - EP); **F27D 99/0006** (2013.01 - EP)

Citation (search report)
• [XA] US 3693955 A 19720926 - WALD HERBERT, et al
• [XA] US 4165868 A 19790828 - SOUTHERN RAYMOND L [US]
• [XA] US 2014151941 A1 20140605 - ZWICKEL GERALD [DE]
• [X] CN 205653491 U 20161019 - UNIV SOUTHWEST PETROLEUM
• [A] CN 204125483 U 20150128 - JIANGSU KAITEER IND FURNACE CO LTD
• [A] WO 2017115187 A1 20170706 - SABIC GLOBAL TECHNOLOGIES BV [NL]
• See also references of WO 2019057118A1

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 3686298 A1 20200729; **EP 3686298 A4 20201118**; JP 2020534442 A 20201126; JP 6952197 B2 20211020; KR 102397796 B1 20220513; KR 20200063162 A 20200604; WO 2019057118 A1 20190328

DOCDB simple family (application)
EP 18857961 A 20180920; CN 2018106718 W 20180920; JP 2020537828 A 20180920; KR 20207010726 A 20180920