

Title (en)
MOVABLE HOT ROLLING THERMAL INSULATION HEAT TREATMENT DEVICE

Title (de)
VORRICHTUNG ZUR WÄRMEBEHANDLUNG EINER BEWEGLICHEN WARMGEWALZTEN THERMISCHEN ISOLIERUNG

Title (fr)
DISPOSITIF DE TRAITEMENT THERMIQUE À ISOLANT THERMIQUE APRÈS LAMINAGE À CHAUD MOBILE

Publication
EP 3686297 A4 20210811 (EN)

Application
EP 18857666 A 20180920

Priority
• CN 201710853613 A 20170920
• CN 201810632224 A 20180619
• CN 2018106712 W 20180920

Abstract (en)
[origin: EP3686297A1] A movable hot rolling thermal insulation heat treatment device, comprising: a base plate (1); a steel coil fixing base (2), disposed at the center on the base plate (1); a tray (3), which is of an annular structure and is horizontally fitted at the middle part of the steel coil fixing base (2); a thermal insulation cover (4), having an opening at the lower end and covering the tray (3), the inner cavity volume of the thermal insulation cover (4) being larger than the volume of a steel coil; an electric heating device (5) disposed on the inner side wall of the thermal insulation cover (4); a temperature sensor (6) disposed in the thermal insulation cover (4); and an information acquisition control module (7) electrically connected to the electric heating device (5) and the temperature sensor (6). The device can utilize the heat of a steel coil itself to perform 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
C21D 9/52 (2006.01); **C21D 1/40** (2006.01); **C21D 1/84** (2006.01); **C21D 9/663** (2006.01); **C21D 9/673** (2006.01); **C21D 9/675** (2006.01); **C21D 9/677** (2006.01); **C21D 11/00** (2006.01); **F27B 11/00** (2006.01)

CPC (source: EP KR)
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Citation (search report)
• [Y] CN 203064459 U 20130717 - WUXI YAZHONG INTELLIGENT EQUIPMENT CO LTD
• [Y] US 4165868 A 19790828 - SOUTHERN RAYMOND L [US]
• [Y] CN 206454997 U 20170901 - CHEN HUAIGANG
• [A] US 4603730 A 19860805 - DAVIS ESKER K [US], et al
• [A] CN 205275647 U 20160601 - BAOSHAN IRON & STEEL
• See references of WO 2019057117A1

Designated contracting state (EPC)
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