

Title (en)

ROTARY FURNACE FOR HEAT-TREATING METAL WORKPIECES, AND CORRESPONDING HEAT TREATMENT METHOD

Title (de)

DREHHERDOFEN ZUR WÄRMEBEHANDLUNG VON METALLISCHEN WERKSTÜCKEN UND ENTSPRECHENDES VERFAHREN ZUR WÄRMEBEHANDLUNG

Title (fr)

FOUR À SOLE TOURNANTE POUR LE TRAITEMENT THERMIQUE DE PIÈCES OUVRÉES MÉTALLIQUES, ET PROCÉDÉ DE TRAITEMENT THERMIQUE ASSOCIÉ

Publication

EP 3948130 C0 20240529 (DE)

Application

EP 20715015 A 20200325

Priority

- DE 102019108873 A 20190404
- EP 2020058377 W 20200325

Abstract (en)

[origin: WO2020200963A1] The invention relates to a rotary furnace (1) for heat-treating metal workpieces (9), comprising an inner housing (3), which can be rotated about a rotational axis (2), for supplying a furnace gas (16) to heat-treatment areas (6). The inner housing (3) has radially outer heat-treatment areas (6) for the workpieces (9), said areas being rotationally fixed to the inner housing (3) and lying outside of the inner housing (3). The inner housing (3) has nozzle devices (10), through which furnace gas (16) can be conducted out of the interior of the inner housing (3) to the heat-treatment areas (6), and each heat-treatment area (6) is paired with a nozzle device (10) which is rotationally fixed to the inner housing (3). At least one turbomachine (13) is provided through which furnace gas (16) can be conducted past at least one heat source (14) and into the interior of the inner housing (3).

IPC 8 full level

C21D 1/34 (2006.01); **C21D 1/767** (2006.01)

CPC (source: EP)

C21D 1/34 (2013.01); **C21D 1/767** (2013.01); **C21D 9/0025** (2013.01); **C21D 9/0037** (2013.01); **F27B 9/16** (2013.01); **F27B 9/3005** (2013.01); **F27D 7/04** (2013.01)

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

Participating member state (EPC – UP)

AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)

WO 2020200963 A1 20201008; DE 102019108873 A1 20201008; EP 3948130 A1 20220209; EP 3948130 B1 20240529; EP 3948130 C0 20240529

DOCDB simple family (application)

EP 2020058377 W 20200325; DE 102019108873 A 20190404; EP 20715015 A 20200325