

Title (en)

METHOD FOR THE HEAT TREATMENT OF METAL WORKPIECES

Title (de)

VERFAHREN ZUR WÄRMEBEHANDLUNG METALLISCHER WERKSTÜCKE

Title (fr)

PROCÉDÉ DE TRAITEMENT THERMIQUE DE PIÈCES MÉTALLIQUES

Publication

EP 4305368 A1 20240117 (DE)

Application

EP 22721361 A 20220408

Priority

- DE 102021109671 A 20210416
- EP 2022059352 W 20220408

Abstract (en)

[origin: WO202218829A1] The invention relates to a method for the heat treatment of metal workpieces (WB), in particular transmission components, wherein preferably carburized metal workpieces (WB) are introduced into a means (TK) for heating workpieces and are heated therein, wherein the means (TK) for heating workpieces is in the form of a continuous furnace and wherein workpieces (WB) are introduced into the continuous furnace through a first opening apparatus (1) and into a heating portion (TKH) of the continuous furnace for heating, wherein workpieces (WB), after being heated, are transferred to an outlet portion (TKO) which can be sealed off from the heating portion (TKH) and are kept warm therein at a defined temperature, wherein workpieces (WB), after being kept warm, are discharged from the continuous furnace through a second opening apparatus (2) which is different from the first opening apparatus (1), wherein workpieces (WB), after being discharged, are introduced into a means (PQ) for hardening.

IPC 8 full level

F27B 9/02 (2006.01); **C21D 1/673** (2006.01); **C21D 9/00** (2006.01)

CPC (source: EP)

C21D 1/18 (2013.01); **C21D 1/613** (2013.01); **C21D 1/673** (2013.01); **C21D 1/74** (2013.01); **C21D 7/13** (2013.01); **C21D 9/0062** (2013.01); **C21D 11/00** (2013.01); **F27B 9/028** (2013.01)

Citation (search report)

See references of WO 202218829A1

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)

DE 102022108510 A1 20221020; EP 4305368 A1 20240117; WO 202218829 A1 20221020; WO 202218829 A9 20221208

DOCDB simple family (application)

DE 102022108510 A 20220408; EP 2022059352 W 20220408; EP 22721361 A 20220408