

Title (en)

METHOD FOR THE HEAT TREATMENT OF METAL WORKPIECES

Title (de)

VERFAHREN ZUR WÄRMEBEHANDLUNG VON METALLISCHEN WERKSTÜCKEN

Title (fr)

PROCÉDÉ DE TRAITEMENT THERMIQUE DE PIÈCES MÉTALLIQUES

Publication

EP 4314682 A1 20240207 (DE)

Application

EP 22721363 A 20220408

Priority

- DE 102021109675 A 20210416
- EP 2022059356 W 20220408

Abstract (en)

[origin: WO2022218831A1] The invention relates to a method for the heat treatment of metal workpieces, in particular transmission components, in which carburized metal workpieces are introduced into a means for heating workpieces and are heated therein, wherein the means for heating workpieces is in the form of a continuous furnace and wherein workpieces are introduced into the continuous furnace through a first opening apparatus and are discharged from the continuous furnace through a second opening apparatus which is spaced apart from the first opening apparatus, wherein workpieces, after being discharged, are introduced, for hardening, into a means for hardening.

IPC 8 full level

F27B 9/02 (2006.01); **C21D 1/673** (2006.01); **C21D 9/00** (2006.01); **F27D 15/02** (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); **F27D 15/02** (2013.01)

Citation (search report)

See references of WO 2022218831A1

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 102022108512 A1 20221020; EP 4314682 A1 20240207; WO 2022218831 A1 20221020; WO 2022218831 A9 20221208

DOCDB simple family (application)

DE 102022108512 A 20220408; EP 2022059356 W 20220408; EP 22721363 A 20220408