

Title (en)
HYDRAULIC FORMING MACHINE FOR PRESSING WORKPIECES, MORE PARTICULARLY FORGING HAMMER, AND METHOD FOR OPERATING A HYDRAULIC FORMING MACHINE, MORE PARTICULARLY A FORGING HAMMER

Title (de)
HYDRAULISCHE UMFORMMASCHINE ZUM PRESSEN VON WERKSTÜCKEN, INSBESONDERE SCHMIEDEHAMMER, UND VERFAHREN ZUM BETREIBEN EINER HYDRAULISCHEN UMFORMMASCHINE, INSBESONDERE EINES SCHMIEDEHAMMERS

Title (fr)
MACHINE DE FORMAGE HYDRAULIQUE DESTINÉE À COMPRIMER DES PIÈCES, EN PARTICULIER MARTEAU À FORGER, ET PROCÉDÉ POUR FAIRE FONCTIONNER UNE MACHINE DE FORMAGE HYDRAULIQUE, EN PARTICULIER UN MARTEAU À FORGER

Publication
EP 4281282 A1 20231129 (DE)

Application
EP 22701385 A 20220124

Priority
• DE 102021101539 A 20210125
• EP 2022051490 W 20220124

Abstract (en)
[origin: WO2022157360A1] The underlying invention relates particularly to a hydraulic forming machine (1), more particularly a forging hammer (1), for workpiece forming, comprising a hydraulic cylinder (4) for driving a ram (2) designed for workpiece forming, and a hydraulic circuit (8) designed for operation of the hydraulic cylinder (4), wherein the hydraulic circuit (8) has an actuating member (12) with an adjustably variable volume flow via which a first hydraulic working space (9) of the hydraulic cylinder (4) used to accelerate the ram (2) during the execution of a working stroke (A) for workpiece forming can be provided with hydraulic fluid. The hydraulic circuit (8) is designed to adjust and to vary the volume flow of the valve (12) or actuating member depending on a target speed (Vsoll) of the ram (2) to be achieved in an acceleration phase of a working stroke (A) and to optimise the subsequent movement phase.

IPC 8 full level
B30B 15/16 (2006.01); **B21J 9/12** (2006.01)

CPC (source: EP US)
B21J 7/28 (2013.01 - EP US); **B21J 7/46** (2013.01 - EP US); **B21J 9/12** (2013.01 - EP); **B21J 9/20** (2013.01 - EP); **B30B 15/20** (2013.01 - EP)

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 102021101539 A1 20220728; CN 117241934 A 20231215; EP 4281282 A1 20231129; US 2024173765 A1 20240530; WO 2022157360 A1 20220728; WO 2022157360 A9 20220922

DOCDB simple family (application)
DE 102021101539 A 20210125; CN 202280024613 A 20220124; EP 2022051490 W 20220124; EP 22701385 A 20220124; US 202218262891 A 20220124