

Title (en)
METHOD FOR PRODUCING HOT-FORGED MEMBER

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES WARMGESCHMIEDETEN ELEMENTS

Title (fr)
PROCÉDÉ DE PRODUCTION D'UN ÉLÉMENT FORGÉ À CHAUD

Publication
EP 4400232 A1 20240717 (EN)

Application
EP 22866997 A 20220527

Priority
• JP 2021148208 A 20210910
• JP 2022021761 W 20220527

Abstract (en)
Provided is a method for manufacturing a hot-forged member, the method enabling efficient hot forging while preventing defects such as cracks even when a poor workability alloy is used as a material to be hot forged. A method for manufacturing a hot-forged member, comprising: a heating step of heating an unheated material for hot forging in a furnace to a hot forging temperature; a heat-resistant insulation material bonding step of bonding a heat-resistant insulation material to at least a part of a surface of a material for forging removed from the furnace to obtain a material to be hot forged; and a hot forging step of compression-forming a part or all of the material to be hot forged into a predetermined shape using any of a die, an anvil, and a tool, the method further comprising a glass lubricant coating step of coating a glass lubricant on at least a portion of a surface of the unheated material to which the heat-resistant insulation material is to be bonded, wherein the glass lubricant has a viscosity of 10^{2} to 10^{7} Pa-s in the heat-resistant insulation material bonding step.

IPC 8 full level
B21J 3/00 (2006.01); **B21J 1/02** (2006.01); **B21J 5/00** (2006.01)

CPC (source: EP)
B21J 1/003 (2013.01); **B21J 1/02** (2013.01); **B21J 1/06** (2013.01); **B21J 3/00** (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

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4400232 A1 20240717; CN 117980089 A 20240503; JP 7498443 B2 20240612; JP WO2023037667 A1 20230316;
WO 2023037667 A1 20230316

DOCDB simple family (application)
EP 22866997 A 20220527; CN 202280060942 A 20220527; JP 2022021761 W 20220527; JP 2023546773 A 20220527