

Title (en)

METHOD, DEVICE AND CONTROL UNIT FOR ESTABLISHING A PRESS FIT

Title (de)

VERFAHREN, VORRICHTUNG UND STEUERGERÄT ZUM HERSTELLEN EINER PRESSPASSUNG

Title (fr)

PROCÉDÉ, DISPOSITIF ET UNITÉ DE COMMANDE POUR ÉTABLIR UN AJUSTEMENT SERRÉ

Publication

EP 4259375 A1 20231018 (DE)

Application

EP 22703616 A 20220202

Priority

- DE 102021103575 A 20210216
- EP 2022052457 W 20220202

Abstract (en)

[origin: WO2022175087A1] A method, a device and a control unit for establishing or for releasing a press fit between at least one first component (42) and at least one second component (34) and at least one wedge sleeve (43) arranged in between are described. During the producing or the releasing of the press fit, hydraulic fluid is introduced under pressure in each case between an outer surface of the wedge sleeve (43) and an inner side of the second component (34) and/or between an inner side of the wedge sleeve (43) and an outer side of the first component (42). An axial actuating force is determined during the establishing or the releasing of the press fit. The pressure at which the hydraulic fluid is introduced is varied in an automatically regulated manner, in the case of the presence of an axial actuating force greater than or equal to a predefined upper limit value, until the axial actuating force is lower than the predefined upper limit value.

IPC 8 full level

B23P 11/02 (2006.01); **B23P 19/027** (2006.01); **F02C 7/36** (2006.01); **F16D 1/09** (2006.01); **F16H 57/08** (2006.01)

CPC (source: EP)

B23P 11/022 (2013.01); **B23P 19/027** (2013.01); **F16D 1/093** (2013.01); **F16H 57/082** (2013.01)

Citation (search report)

See references of WO 2022175087A1

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 102022102422 A1 20220818; EP 4259375 A1 20231018; WO 2022175087 A1 20220825

DOCDB simple family (application)

DE 102022102422 A 20220202; EP 2022052457 W 20220202; EP 22703616 A 20220202