

Title (en)

METHOD AND DEVICE FOR DETERMINING CENTERS OF A HOLLOW SHAFT ROTATABLY CLAMPED AS A WORKPIECE IN A MACHINE TOOL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERMITTLUNG VON ZENTREN EINER IN EINER WERKZEUGMASCHINE ALS WERKSTÜCK DREHBAR EINGESPANNTEN HOHLWELLE

Title (fr)

PROCÉDÉ ET DISPOSITIF DE DÉTERMINATION DE CENTRES D'UN ARBRE CREUX MONTÉ ROTATIF EN TANT QUE PIÈCE DANS UNE MACHINE-OUTIL

Publication

EP 4139631 A1 20230301 (DE)

Application

EP 21743033 A 20210408

Priority

- DE 102020002421 A 20200422
- DE 2021000071 W 20210408

Abstract (en)

[origin: CA3176322A1] The invention relates to a technical solution for determining centers and the spatial course of the centers of a hollow shaft rotatably clamped as a workpiece in a machine tool, which is machined on its outer surface at least in sections. It is the aim of the invention to provide a technical solution in this respect using methods other than ultrasound. This aim is solved by using a sensor operating according to the eddy current principle, whereby process-engineering and device-engineering features are described in more detail.

IPC 8 full level

G01B 21/24 (2006.01); **G01M 1/12** (2006.01); **G05B 19/402** (2006.01)

CPC (source: EP US)

G01B 7/13 (2013.01 - US); **G01B 7/281** (2013.01 - US); **G01B 7/31** (2013.01 - EP US); **G01B 7/13** (2013.01 - EP); **G01B 7/28** (2013.01 - EP)

Citation (search report)

See references of WO 2021213564A1

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 102020002421 A1 20211028; CA 3176322 A1 20211028; CN 115552197 A 20221230; EP 4139631 A1 20230301; US 2023152079 A1 20230518; WO 2021213564 A1 20211028

DOCDB simple family (application)

DE 102020002421 A 20200422; CA 3176322 A 20210408; CN 202180030489 A 20210408; DE 2021000071 W 20210408; EP 21743033 A 20210408; US 202117920464 A 20210408