

Title (en)

INTERFACE BETWEEN A COLLET HOLDER AND A TOOL ADAPTER

Title (de)

SCHNITTSTELLE ZWISCHEN EINER SPANNZANGENAUFNAHME UND EINEM WERKZEUGADAPTER

Title (fr)

INTERFACE ENTRE UN LOGEMENT DE PINCE DE SERRAGE ET UN ADAPTATEUR D'OUTIL

Publication

**EP 3672749 A1 20200701 (DE)**

Application

**EP 18755798 A 20180814**

Priority

- DE 102017119524 A 20170825
- EP 2018072068 W 20180814

Abstract (en)

[origin: WO2019038146A1] The invention relates to an interface between a collet holder (300) and a tool adapter (500 - 504). The collet holder (300) comprises an inner cone (310), a flat surface (311), and an outer thread (230) for a tensioning nut (401), wherein the tool adapter (500 - 504) comprises an outer cone (320) which complements the inner cone (310), and the collet holder (300) has securing means, which are independent of the outer thread (230) and the tensioning nut (401), for the tool adapter (500 - 504). The securing means comprise one or more radially or diagonally arranged inner threads (315) and a tensioning pin (210) in each inner thread (315), and one or more recesses (317) which interact with the tensioning pin(s) (210) are provided in the tool adapter (500 - 504).

IPC 8 full level

**B23B 31/20** (2006.01); **B23B 31/00** (2006.01); **B23B 31/107** (2006.01)

CPC (source: EP KR RU US)

**B23B 31/00** (2013.01 - RU); **B23B 31/006** (2013.01 - EP KR); **B23B 31/1076** (2013.01 - EP KR US); **B23B 31/2012** (2021.01 - EP KR RU US); **B23C 5/26** (2013.01 - RU); **B23B 2231/04** (2013.01 - EP KR US); **B23B 2231/24** (2013.01 - EP KR)

Citation (search report)

See references of WO 2019038146A1

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

DOCDB simple family (publication)

**WO 2019038146 A1 20190228**; CN 111065478 A 20200424; CN 111065478 B 20210727; DE 102017119524 A1 20190228; EP 3672749 A1 20200701; JP 2020531302 A 20201105; JP 7252235 B2 20230404; KR 102580289 B1 20230920; KR 20200047531 A 20200507; RU 2020110444 A 20210927; RU 2020110444 A3 20210927; RU 2765029 C2 20220124; US 11135657 B2 20211005; US 2021178491 A1 20210617

DOCDB simple family (application)

**EP 2018072068 W 20180814**; CN 201880054457 A 20180814; DE 102017119524 A 20170825; EP 18755798 A 20180814; JP 2020531810 A 20180814; KR 20207004420 A 20180814; RU 2020110444 A 20180814; US 201816636450 A 20180814