

Title (en)
TURNBUCKLE FOR TENSIONING FRAME FORMWORK ELEMENTS

Title (de)
SPANNSCHLOSS ZUM VERSPANNEN VON RAHMENSCHALUNGSELEMENTEN

Title (fr)
TENDEUR POUR METTRE SOUS TENSION DES ÉLÉMENTS DE COFFRAGE DE CADRE

Publication
EP 4263976 A1 20231025 (DE)

Application
EP 21839357 A 20211210

Priority
• DE 102020133600 A 20201215
• EP 2021085235 W 20211210

Abstract (en)
[origin: WO2022128799A1] The invention relates to a turnbuckle (1) for tensioning frame formwork elements (2), the turnbuckle comprising a first clamping apparatus (6) which has a crosspiece (8) and a first clamping jaw (9). The crosspiece (8) has a guide portion (10) comprising a row of track teeth (11) which are arranged behind one another and extend in parallel with one another. The turnbuckle (1) also has a second clamping apparatus (7) which has a second clamping jaw (14). The second clamping apparatus (7) can be shifted in a tensioning direction along the longitudinal axis of the crosspiece (8) towards the first clamping jaw (9). The track teeth (11) extend in each case in an arc from a first longitudinal edge (12) of the crosspiece (8) towards a second longitudinal edge (13) of the crosspiece (8). The second clamping apparatus (7) has at least one support tooth (15) which extends in an arc and can be rotated about a rotational shaft (16). By means of a screwing-in movement, the support tooth (15) can be screwed into a track (17) between two track teeth (11) and can be brought into engagement with one of the track teeth (11). An incline of the arc extension of the support tooth (15) and an incline of the arc extension of the track teeth (11) are matched to one another such that, after the support tooth (15) is brought into engagement with a track tooth (11), a further screwing-in movement of the support tooth (15) applies a force to the second clamping apparatus (7), which force is suitable for pressing the second clamping apparatus (7) in the tensioning direction.

IPC 8 full level
E04G 17/02 (2006.01); **E04G 17/04** (2006.01)

CPC (source: EP US)
E04G 17/02 (2013.01 - EP US); **E04G 17/04** (2013.01 - US); **E04G 17/045** (2013.01 - EP); **F16B 5/0607** (2013.01 - US)

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)
WO 2022128799 A1 20220623; AU 2021399778 A1 20230629; CA 3204284 A1 20220623; DE 102020133600 A1 20220615; EP 4263976 A1 20231025; US 2024133190 A1 20240425

DOCDB simple family (application)
EP 2021085235 W 20211210; AU 2021399778 A 20211210; CA 3204284 A 20211210; DE 102020133600 A 20201215; EP 21839357 A 20211210; US 202118257706 A 20211210