

Title (en)  
MEDICAL TORQUE TIGHTENING DEVICE AND METHOD

Title (de)  
VORRICHTUNG UND VERFAHREN ZUM ANZIEHEN EINES MEDIZINISCHEN DREHMOMENTS

Title (fr)  
DISPOSITIF ET PROCEDE MEDICAL DE SERRAGE DYNAMOMETRIQUE

Publication  
**EP 3648691 A1 20200513 (FR)**

Application  
**EP 18746070 A 20180702**

Priority  
• CH 8642017 A 20170703  
• CH 2018000028 W 20180702

Abstract (en)  
[origin: WO2019006563A1] The invention concerns a torque tightening device (10) comprising a gripping handle (11), an axial rod (12) associated with said gripping handle (11) and arranged to carry a tightening tool (13) and containing a rigid body (14). A peripheral ring (23) mounted on a fluted tube (16) has, on the outer surface of same, a spiral thread (24), onto which there is threaded an end tip (25) of the body (14), in the form of an externally threaded bushing, the thread (26) of which is complementary to said thread (24) engaged with same. The peripheral ring (23) is linked to the fluted tube (16) and the end tip (25) is linked to the body (14). The two threads (24 and 26) link the two elements (23 and 25), and therefore the fluted tube (16) and the body (14). Rotating the body (14) causes the fluted tube (16) to move in a linear manner. In practice, each "click" of the mechanism moves the fluted tube, for example, a fraction of a turn, and causes the two elements (23 and 25) to move axially relative to each other, in order to disconnect the gripping handle (11) and the axial rod (12).

IPC 8 full level  
**A61B 17/88** (2006.01); **A61B 90/00** (2016.01); **B25B 15/02** (2006.01); **B25B 23/14** (2006.01)

CPC (source: CH EP US)  
**A61B 17/8875** (2013.01 - CH EP US); **B25B 15/02** (2013.01 - CH); **B25B 23/0042** (2013.01 - US); **B25B 23/141** (2013.01 - EP US); **B25B 23/142** (2013.01 - US); **B25B 23/1427** (2013.01 - CH); **A61B 2090/031** (2016.02 - EP US); **B25B 15/02** (2013.01 - EP); **B25B 23/1427** (2013.01 - EP)

Citation (search report)  
See references of WO 2019006563A1

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 2019006563 A1 20190110**; CH 713952 A1 20190115; EP 3648691 A1 20200513; US 2021145497 A1 20210520

DOCDB simple family (application)  
**CH 2018000028 W 20180702**; CH 8642017 A 20170703; EP 18746070 A 20180702; US 201816627833 A 20180702