

Title (en)  
Torque rod

Title (de)  
Torsionsstab

Title (fr)  
Tige de torsion

Publication  
**EP 2754534 A3 20180228 (DE)**

Application  
**EP 14150260 A 20140107**

Priority  
DE 102013200227 A 20130110

Abstract (en)  
[origin: EP2754534A2] The torsion bar has a shaft (10) including a torsion region (13) between opposing longitudinal end portions (11,12). A clutch (15) is arranged at end portion (11) of shaft for rotationally fixed connection of shaft to output spindle of impact wrench. A clutch (16) is arranged at end portion (12) of shaft for rotationally fixed connection of shaft to threaded portion of expansion anchor. A tubular internal cavity (31) and a slot (32) are formed in torsion region of shaft. An independent claim is included for a method for manufacturing torsion bar.

IPC 8 full level  
**B25B 23/00** (2006.01); **B25B 23/14** (2006.01); **B25B 23/142** (2006.01)

CPC (source: EP)  
**B25B 23/0021** (2013.01); **B25B 23/14** (2013.01)

Citation (search report)

- [XY] DE 202012103739 U1 20121115 - CHIANG WEN HUNG [TW]
- [X] EP 2399710 A2 20111228 - KWANG YANG MOTOR CO [TW]
- [XI] US 5690006 A 19971125 - PULLIAM DOYLE H [US]
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- [A] US 5123313 A 19920623 - ANDERSSON SVANTE [SE]
- [A] EP 2055433 A2 20090506 - COMPASS CORP [TW]

Cited by  
EP3135435A1; WO2017032642A1

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)  
**EP 2754534 A2 20140716; EP 2754534 A3 20180228**; DE 102013200227 A1 20140710

DOCDB simple family (application)  
**EP 14150260 A 20140107**; DE 102013200227 A 20130110