Title (en)

Torque measuring tool, such as an electronic torque wrench

Title (de)

Werkzeug zum Messen eines Drehmoments, wie z.b. ein elektronischer Drehmomentschlüssel

Title (fr)

Outil de mesure d'un couple, tel qu'une clé dynamométrique électronique

Publication

## EP 0633100 B1 19971008 (FR)

Application

## EP 94401544 A 19940705

Priority

FR 9308519 A 19930709

Abstract (en)

[origin: EP0633100A1] This torque wrench (6) includes a head (2) for tightening a member to be screwed-in, an operating grip (3), a handle (7) which is deformable and sensitive to bending connecting the grip to the tightening head, and electronic means (M) for measuring the deformation of the handle and displaying the tightening torque which is calculated from the said deformation measurement; the handle includes a region whose main cross-section is different from that of the rest of the handle by virtue of a cutout (9) and such that it can locally convert shear stresses, generated by the operating force (F), into extension/compression stresses parallel to the surface of the handle. This arrangement makes it possible to compensate for the error introduced by only taking account of bending when calculating the torque transmitted by the tightening head and therefore makes it possible to avoid exceeding the maximum tightening torque beyond which the profile of the tightening head or the screw thread of the member being screwed-in might be damaged, and all this is achieved by means of a relatively inexpensive system. <IMAGE>

IPC 1-7

## B25B 23/142

IPC 8 full level

B25B 23/142 (2006.01)

CPC (source: EP US) **B25B 23/1425 (2013.01 - EP US)** 

Cited by CN108098668A; CN103528747A

Designated contracting state (EPC) DE GB IT

DOCDB simple family (publication)

**EP 0633100 A1 19950111; EP 0633100 B1 19971008**; DE 69406057 D1 19971113; DE 69406057 T2 19980226; FR 2707395 A1 19950113; FR 2707395 B1 19951006; US 5503028 A 19960402

DOCDB simple family (application)

EP 94401544 A 19940705; DE 69406057 T 19940705; FR 9308519 A 19930709; US 27345694 A 19940711