

Title (en)

Torque wrench with angle sensor without external reference

Title (de)

Drehmomentschlüssel mit Winkelsensor ohne äusseren Referenzpunkt

Title (fr)

Clé dynamométrique avec capteur d'angle sans référence externe

Publication

EP 1022097 A2 20000726 (EN)

Application

EP 00200210 A 20000120

Priority

IT MI990111 A 19990122

Abstract (en)

An electronic torque wrench comprises a head (12) for coupling with a member to be tightened, a first sensor (14) for detecting the torque generated on the head upon moving the wrench, a second sensor made up of a gyroscope (17) for detecting angular rotation of the head, means of calculation to find from the sensor detection information considered significant. <IMAGE>

IPC 1-7

B25B 23/142

IPC 8 full level

B25B 23/142 (2006.01)

CPC (source: EP)

B25B 23/0035 (2013.01); **B25B 23/1425** (2013.01)

Cited by

CN103185651A; IT201900024730A1; DE102007055028A1; EP1962064A3; US7841100B2; EP1389507A1; FR2843326A1; EP2712709A1; FR2996155A1; GB2447161A; AU2006318399B2; GB2447161B; DE102008022466B4; EP1462220A1; FR2852879A1; US8886492B2; WO2009136840A1; US7565844B2; WO2018036665A1; WO2007062229A1; WO2021124187A1; WO03041914A3; US6968759B2; US6981436B2; US7036407B2; US8918292B2; TWI464040B; WO2022082031A1

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EP 1022097 A2 20000726; **EP 1022097 A3 20030122**; IT 1308592 B1 20020108; IT MI990111 A1 20000722

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