

Title (en)

Torque tool, especially wrench, with snap means for adjusting the torque

Title (de)

Drehmoment-Werkzeug, insbesondere Schlüssel, mit Schnappmitteln zum Einstellen des Drehmoments

Title (fr)

Outil, notamment clé, dynamométrique comprenant des moyens cliquetants de réglage du couple

Publication

**EP 1375072 A3 20041222 (FR)**

Application

**EP 03291555 A 20030624**

Priority

FR 0208146 A 20020628

Abstract (en)

[origin: EP1375072A2] An axial spring (61) pushes the support onto the driving element and its compression determines the tool release torque. A torque adjusting handle (7) rotates on the body to activate the spring compression nut (47). It comprises a first toothed crown wheel (41) fixed to the body and a second complementary toothed crown wheel (43) fixed to rotate with the handle. The second crown wheel can slide axially between an engaged position meshing with the first crown wheel and a disengaged position. The second crown wheel is returned to the engaged position by an axial return spring (45). The dynamometer spanner comprises a driving element, a hollow outer body (3) and an axial support (65,67) onto the driving element.

IPC 1-7

**B25B 23/142**

IPC 8 full level

**B25B 23/142** (2006.01)

CPC (source: EP)

**B25B 23/1427** (2013.01)

Citation (search report)

- [A] US 2732747 A 19560131
- [DA] GB 2306363 A 19970507 - HSU FRANK [TW]
- [A] US 1860871 A 19320531 - POULIOT WILFRED A
- [A] GB 966947 A 19640819 - MERRITT & COMPANY ENGINEERING
- [A] US 2984133 A 19610516 - ZIMMERMAN MILFORD S
- [A] US 5662012 A 19970902 - GRABOVAC BOSKO [US]
- [A] US 3270594 A 19660906 - BOSKO GRABOVAC
- [A] US 2002040628 A1 20020411 - KEMP JESSE [US], et al
- [A] US 6334377 B1 20020101 - WU IZU MIN [TW]

Cited by

JP2012101318A; CN114260848A; CN115425561A; CN112059982A; US7313974B2; CN105459004A; CN118372023A; CN116981544A; CN100431797C; EP2998071A1; CN112792776A

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