

Title (en)

Coupling device for locking a plug-connection of a work tool

Title (de)

Kupplungsvorrichtung zum Verriegeln von Steckverbindungen bei Werkzeugen

Title (fr)

Dispositif d'accouplement pour verrouiller une connexion à fiches d'un outil

Publication

EP 1371455 A3 20061004 (DE)

Application

EP 03013057 A 20030610

Priority

DE 20209159 U 20020612

Abstract (en)

[origin: EP1371455A2] A lifting bar (28) has a cone-shaped end (30) for contact with a ball (26). The extension (10) comprises a basis body (14), a polygonal profile (20) provided on the basis body with a hole (24) in one side (18), a lifting bar extending into an axial bore (16), a ball in the hole in the side of the profile, and a setting bar (34) extending perpendicular to the lifting bar. Both bars are engaged with each other so that linear movement of the setting bar will change the position of the lifting bar and either lower the ball into its hole or raised the ball out of its hole.

IPC 8 full level

B25B 23/00 (2006.01); **F16B 7/20** (2006.01); **F16D 1/10** (2006.01)

CPC (source: EP US)

B25B 23/0035 (2013.01 - EP US); **Y10T 403/592** (2015.01 - EP US); **Y10T 403/599** (2015.01 - EP US)

Citation (search report)

- [A] US 5813296 A 19980929 - HOFF JEFFREY H [US], et al
- [A] US 5390571 A 19950221 - FOX III LEONARD J [US], et al
- [A] US 3180435 A 19650427 - MCHENRY KENNETH A
- [A] US 5291809 A 19940308 - FOX III LEONARD J [US], et al
- [DA] EP 0747174 A1 19961211 - CHOW JESSIE [TW]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2004007102 A1 20040115; **US 6889582 B2 20050510**; AT E459455 T1 20100315; CN 1330463 C 20070808; CN 1488864 A 20040414; DE 20209159 U1 20020829; DE 50312468 D1 20100415; EP 1371455 A2 20031217; EP 1371455 A3 20061004; EP 1371455 B1 20100303; ES 2341849 T3 20100629; JP 2004132539 A 20040430; JP 4297735 B2 20090715

DOCDB simple family (application)

US 45890403 A 20030611; AT 03013057 T 20030610; CN 03143880 A 20030612; DE 20209159 U 20020612; DE 50312468 T 20030610; EP 03013057 A 20030610; ES 03013057 T 20030610; JP 2003166518 A 20030611