

Title (en)
TORQUE TRANSMITTING DEVICE WITH PRESS FIT BETWEEN THE DRIVING AND DRIVEN PARTS, PARTICULARLY A SCREWDRIVER

Title (de)
DREHMOMENTÜBERTRAGUNGSEINRICHTUNG MIT KLEMMSITZ ZWISCHEN ANTRIEBS- UND ABTRIEBSTEIL, INSBESONDERE SCHRAUBWERKZEUG

Title (fr)
DISPOSITIF DE TRANSMISSION DE COUPLE DE ROTATION A SIEGE DE SERRAGE ENTRE UNE PARTIE MENANTE ET UNE PARTIE MENEES, EN PARTICULIER OUTIL DE VISSAGE

Publication
EP 1858670 B1 20150225 (DE)

Application
EP 06708629 A 20060303

Priority
• EP 2006060440 W 20060303
• DE 102005011734 A 20050311

Abstract (en)
[origin: WO2006094940A1] The invention relates to a torque transmitting device with a driving part (1), particularly provided in the form of a screwdriver whose profile section (2) positively engages in an essentially cylindrical plug-in opening (3) of a driven part (4). The cross-section of the plug-in opening (3) has a number of, in particular, five or six edge sections (5), which are evenly distributed in the peripheral direction, are identical, are concavely rounded, and which, without folds, merge into convexly rounded identical edge sections (6). The convexly rounded edge sections (6) alternate with the concavely rounded edge sections (5) and have a smaller radius of curvature than the latter. The profile section (2) has a number of grooves (7), which each have a rounded bottom, the number of grooves corresponding to the number of the convexly rounded edge sections (5) of the plug-in opening cross-section, and the profile section also has fins (8) extending between the grooves. The apex lines (9) of the fins (8) or the ground lines (10) of the grooves (7) run at an acute angle to the axial direction of the profile section. The invention is characterized in that outwardly pointing sections of the fins (8) extend on a truncated cone lateral surface about the axis (M) of the profile section (2), and these truncated cone lateral surface sections (11) of the fins (8) merge into the rounded bottoms of the grooves (7) while forming a folding line (12).

IPC 8 full level
B25B 15/00 (2006.01); **B25B 23/10** (2006.01); **F16B 23/00** (2006.01)

CPC (source: EP)
B25B 15/005 (2013.01); **B25B 23/108** (2013.01)

Citation (examination)
DE 20218102 U1 20030130 - HOLLAND LETZ FELO WERKZEUG [DE]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102005011734 A1 20060914; EP 1858670 A1 20071128; EP 1858670 B1 20150225; WO 2006094940 A1 20060914

DOCDB simple family (application)
DE 102005011734 A 20050311; EP 06708629 A 20060303; EP 2006060440 W 20060303