

Title (en)

Tool for tightening and loosening a wing nut or wing screw of an automobile wheel

Title (de)

Werkzeug zum Fixieren und Lösen einer ein Kraftfahrzeugrad festlegenden Flügelmutter oder Flügelschraube

Title (fr)

Outil pour serrer et desserrer une vis à ailettes ou un écrou à oreilles d'une roue d'un véhicule automobile

Publication

EP 1683607 A1 20060726 (DE)

Application

EP 06001418 A 20060124

Priority

DE 202005001232 U 20050125

Abstract (en)

The tool (1) has a base element (4) with at least two application bodies (5) separated by apertures (7) for transferring torque from the tool to nut (2) or bolt vanes (3) and a protrusion (6) for preventing the tool from slipping off the nut or bolt in the axial direction by engaging behind at least one vane.

IPC 8 full level

B25B 13/50 (2006.01); **B25B 13/06** (2006.01); **B25B 13/48** (2006.01)

CPC (source: EP US)

B25B 13/5091 (2013.01 - EP US)

Citation (search report)

- [XY] GB 113540 A
- [Y] US 3151512 A 19641006 - WALTER CHARCZENKO

Cited by

FR2918912A1; CN102528717A; GB2439382A; GB2439382B; US8978520B2

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

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

US 2006162506 A1 20060727; **US 7127970 B2 20061031**; AT E466693 T1 20100515; DE 202005001232 U1 20050908; DE 502006006876 D1 20100617; EP 1683607 A1 20060726; EP 1683607 B1 20100505

DOCDB simple family (application)

US 18841605 A 20050725; AT 06001418 T 20060124; DE 202005001232 U 20050125; DE 502006006876 T 20060124; EP 06001418 A 20060124