

Title (en)
QUICK-RELEASE DEVICE FOR SCREWDRIVER BITS

Title (de)
SCHNELLSPANNVORRICHTUNG FÜR SCHRAUBENDREHERBITS

Title (fr)
DISPOSITIF À LIBÉRATION RAPIDE POUR DES EMBOUTS DE TOURNEVIS

Publication
EP 3109003 A1 20161228 (EN)

Application
EP 16000896 A 20160421

Priority
TW 104119369 A 20150616

Abstract (en)
A quick-release device for screwdriver bit (40) includes a shank (10) having a polygonal hole (11) longitudinally defined in one end thereof and adapted for partially receiving a bit (40). At least one slot (13) is longitudinally defined in the shank (10). An annular groove (14) is defined in an inner periphery of the polygonal hole (11) and communicates with the at least one slot (13), wherein the annular groove (14) is formed with a tapered section (15) toward the first end of the shank (10). An expandable limit element (16) is received in the annular groove (14). A sleeve (20) is movably sleeved on the shank (10). The sleeve (20) has at least one protrusion (21) inwardly extending therefrom and engaged into the at least one slot (13) and abutting against the limit element (16) when removing the bit (40) from the polygonal hole (11). A stopper (30) is secured on one end of the shank (10) for preventing the sleeve (20) from removing from the shank (10).

IPC 8 full level
B25B 23/00 (2006.01)

CPC (source: EP)
B25B 23/0035 (2013.01)

Citation (search report)
• [Y] US 8578823 B2 20131112 - HALE TROY [US]
• [Y] DE 20211170 U1 20021010 - HUANG DANIEL [TW]
• [A] DE 3243389 A1 19840524 - WERNER HERMANN WERA WERKE [DE]
• [A] US 4535658 A 19850820 - MOLINARI PAUL J [US]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3109003 A1 20161228; EP 3109003 B1 20220629; TW 201700225 A 20170101; TW I562865 B 20161221

DOCDB simple family (application)
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