

Title (en)

Safety device for multi-function handtool

Title (de)

Sicherheitsmodul für multifunktionale Handwerkzeugmaschine

Title (fr)

Dispositif de sécurité pour outil portatif multifonctionnel

Publication

EP 1391271 A3 20080716 (DE)

Application

EP 03102526 A 20030813

Priority

DE 10237898 A 20020819

Abstract (en)

[origin: EP1391271A2] The tool drive (7) may impart rotational and reciprocating movements to the tool. An electric motor (6) drives the tool through a clutch (8). An ATC (ANTI-TORQUE CONTROL) module (1) has a rotation sensor (3) and an axial movement sensor (4) connected to a microcontroller (2). The two sensors are connected to identical circuits containing integrators (9) and multipliers (10) connected to adders (11) and comparators (12a,b) fed with threshold signals (13a,b) and sending signals (14a,b) to an AND circuit (15). This sends a control signal (5) to the clutch to release it.

IPC 8 full level

B25D 16/00 (2006.01); **B25D 17/00** (2006.01); **B25D 17/10** (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP US)

B25D 16/00 (2013.01 - EP US); **B25F 5/00** (2013.01 - EP US)

Citation (search report)

- [YD] DE 19942156 A1 20010308 - HILTI AG [LI]
- [Y] WO 8806508 A2 19880907 - BOSCH GMBH ROBERT [DE]
- [AD] DE 19628945 A1 19970507 - BOSCH GMBH ROBERT [DE]
- [A] US 3464503 A 19690902 - HOUCK FREDERICK D

Cited by

US10160049B2; US10589413B2; US11192232B2

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

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

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