

Title (en)
Hand-held power tool with a damping device

Title (de)
Kraftgetriebenes Handwerkzeug mit Dämpfungseinrichtung

Title (fr)
Outil à main motorisé avec un dispositif amortisseur

Publication
EP 1736284 A1 20061227 (DE)

Application
EP 06011920 A 20060609

Priority
DE 102005031074 A 20050624

Abstract (en)
The power tool (10) can be an angle grinder with a housing (12) accommodating a transmission unit (14), an electric drive (24), and an electronic module (28). Two vibration absorbing elements (30,31) are positioned at the housing (12) in the transition area between the motor (24) and the transmission unit (14). A second pair (32,33) is located between the motor (24) and the electronic unit (28). The vibrations created by the device (10) are transmitted from sensors integrated in the vibration absorbing elements (30,31,32,33) to a microprocessor and returned as a dephased control signal.

IPC 8 full level
B25F 5/02 (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP US)
B25D 17/043 (2013.01 - EP US); **B25D 17/24** (2013.01 - EP US); **B25F 5/006** (2013.01 - EP US); **B25F 5/02** (2013.01 - EP US); **B25D 2250/221** (2013.01 - EP US)

Citation (applicant)
JP H01274973 A 19891102 - SHIBAURA ENG WORKS LTD

Citation (search report)
• [X] US 2004206521 A1 20041021 - SCHAD HANS PETER [CH]
• [X] US 2003006051 A1 20030109 - SCHMITZER HARALD [DE], et al
• [X] DE 10332521 A1 20050203 - BOSCH GMBH ROBERT [DE]
• [XA] DE 10332522 A1 20050217 - BOSCH GMBH ROBERT [DE]
• [XA] US 6076616 A 20000620 - KRAMP EDITH [DE], et al
• [A] US 2005000998 A1 20050106 - GRAZIOLI MARIO [CH], et al
• [X] PATENT ABSTRACTS OF JAPAN vol. 014, no. 042 (M - 0925) 25 January 1990 (1990-01-25)

Cited by
CN102029564A; DE102010027205A1; EP2415566A1; EP2511033A3; DE102011113737A1; WO2011072908A1; WO2009121430A1; WO2009019053A1; WO2009019054A1; WO2009047187A3; US8690497B2; US9085058B2; DE102011101075A1; DE102011101075B4; WO2009109245A1; WO2009065681A3

Designated contracting state (EPC)
CH DE FR GB IT LI

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1736284 A1 20061227; EP 1736284 B1 20130515; DE 102005031074 A1 20070104; US 2006289183 A1 20061228

DOCDB simple family (application)
EP 06011920 A 20060609; DE 102005031074 A 20050624; US 47183706 A 20060621