

Title (en)

Hand tool with a wobble drive

Title (de)

Handwerkzeuggerät mit Taumleinrichtung

Title (fr)

Outil portatif avec entraînement à basculement

Publication

**EP 1716980 A1 20061102 (DE)**

Application

**EP 06112544 A 20060412**

Priority

DE 102005019196 A 20050425

Abstract (en)

Hand tool (2) comprises a wobble device (20) having a drive element (22) rotating about a drive axle (A) and a driven element (26) coupled with the drive element via a wobble bearing (30). The wobble bearing has a reinforcement opposite a second side of a bearing region on one of the bearing regions on a first side. Preferred Features: The reinforcement is formed by a peripheral enlargement of the bearing region on the first side opposite the second side. The bearing region on the driven side is cylindrical on the first side and on the second side.

IPC 8 full level

**B25D 11/06** (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP US)

**B25D 11/062** (2013.01 - EP US); **B25F 5/001** (2013.01 - EP US); **B25D 2250/335** (2013.01 - EP US); **Y10T 74/18296** (2015.01 - EP US)

Citation (applicant)

- DE 3427342 A1 19860130 - BOSCH GMBH ROBERT [DE]
- EP 0358978 A1 19900321 - BLACK & DECKER INC [US]

Citation (search report)

- [XA] EP 0358978 A1 19900321 - BLACK & DECKER INC [US]
- [XA] EP 1413401 A1 20040428 - BLACK & DECKER INC [US]
- [DX] DE 3427342 A1 19860130 - BOSCH GMBH ROBERT [DE]
- [XA] EP 0152645 A1 19850828 - LICENTIA GMBH [DE]
- [XA] DE 3307521 A1 19840906 - BOSCH GMBH ROBERT [DE]
- [A] US 4446931 A 19840508 - BLEICHER MANFRED [DE], et al

Cited by

US10670072B2; WO2009049843A3; WO2010118849A1

Designated contracting state (EPC)

CH DE FR GB IT LI

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1716980 A1 20061102**; **EP 1716980 B1 20090311**; CN 1853866 A 20061101; CN 1853866 B 20110824; DE 102005019196 A1 20061026; DE 502006003052 D1 20090423; JP 2006305724 A 20061109; US 2006266139 A1 20061130; US 7404451 B2 20080729

DOCDB simple family (application)

**EP 06112544 A 20060412**; CN 200610075560 A 20060420; DE 102005019196 A 20050425; DE 502006003052 T 20060412; JP 2006119307 A 20060424; US 41080406 A 20060424