

Title (en)

Hand tool, especially screwdriver

Title (de)

Handwerkzeugmaschine, beispielsweise Schrauber

Title (fr)

Outil à main, notamment tournevis

Publication

**EP 1391269 B1 20070314 (DE)**

Application

**EP 03013591 A 20030614**

Priority

DE 10239483 A 20020821

Abstract (en)

[origin: EP1391269A2] A central shaft (9) holds a sunwheel which meshes with planet wheels in mesh with the internal teeth (7) of the ring gear (8). Balls (15) engage with sloping faces (20,21) on a spring-loaded (27) support ring (19), and are accommodated in apertures (14) in a bearing ring (13). The balls project inside the bearing ring and engage in cutouts (16) in the outer rim of the ring gear.

IPC 8 full level

**B25B 23/14** (2006.01)

CPC (source: EP)

**B25B 23/141** (2013.01)

Cited by

EP1787757A1; CN102748443A; CN113001478A; US7537540B2

Designated contracting state (EPC)

CH DE FR GB LI

DOCDB simple family (publication)

**EP 1391269 A2 20040225; EP 1391269 A3 20060510; EP 1391269 B1 20070314**; DE 10239483 B3 20040304; DE 50306785 D1 20070426

DOCDB simple family (application)

**EP 03013591 A 20030614**; DE 10239483 A 20020821; DE 50306785 T 20030614