

Title (en)  
MACHINE TOOL

Title (de)  
WERKZEUGMASCHINE

Title (fr)  
MACHINE-OUTIL

Publication  
**EP 1259357 B1 20030903 (DE)**

Application  
**EP 01909706 A 20010130**

Priority  
• DE 10007665 A 20000219  
• EP 0100956 W 20010130

Abstract (en)  
[origin: WO0160570A1] The invention relates to a gearbox (10, 12), which may be switched using an operating element (14, 16), by means of at least one clutch element (18). Said gearbox comprises at least one spring element (20, 22) arranged in the force path, between the operating element (14, 16) and the clutch element (18), fixed to a first component (24, 26) in at least two switching directions (28, 30) and in the opposite sense of the force path, fixed to a second component (32, 34) in at least the two switching directions (28, 30).

IPC 1-7  
**B25D 16/00**

IPC 8 full level  
**B23B 45/00** (2006.01); **B23B 45/16** (2006.01); **B25D 16/00** (2006.01)

CPC (source: EP US)  
**B25D 16/006** (2013.01 - EP US); **Y10T 74/1946** (2015.01 - EP US); **Y10T 74/20177** (2015.01 - EP US); **Y10T 74/20183** (2015.01 - EP US); **Y10T 408/65** (2015.01 - EP US)

Cited by  
WO2011020644A1; DE102009028622A1; US9643309B2

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

DOCDB simple family (publication)  
**WO 0160570 A1 20010823**; CN 100406207 C 20080730; CN 1404431 A 20030319; DE 10007665 A1 20010906; DE 50100576 D1 20031009; EP 1259357 A1 20021127; EP 1259357 B1 20030903; JP 2003523835 A 20030812; JP 4933713 B2 20120516; US 2003079562 A1 20030501; US 6942435 B2 20050913

DOCDB simple family (application)  
**EP 0100956 W 20010130**; CN 01805256 A 20010130; DE 10007665 A 20000219; DE 50100576 T 20010130; EP 01909706 A 20010130; JP 2001559650 A 20010130; US 20402802 A 20021011