

Title (en)
SWITCHABLE PLANETARY GEAR SET IN A HANDHELD MACHINE TOOL

Title (de)
SCHALTbares PLANETENGETRIEBE IN EINER HANDWERKZEUGMASCHINE

Title (fr)
ENGRENAGE PLANÉTAIRE COMMUTABLE DANS UNE MACHINE-OUTIL PORTATIVE

Publication
EP 2358502 B1 20180523 (DE)

Application
EP 09736979 A 20091021

Priority
• EP 2009063776 W 20091021
• DE 102008043795 A 20081117

Abstract (en)
[origin: WO2010054916A1] A switchable planetary gear set in a handheld machine tool (1) has a plurality of planet carriers (8, 9, 10) with associated planet gears (12, 13, 14) and can be adjusted between at least two gear stages, wherein the gear stages can be engaged by means of an adjustable switching ring gear (16). At least three planet carriers (8, 9, 10) with associated planet gears (12, 13, 14) are provided so as to be situated axially one behind the other, wherein in a position in which it is fixed with respect to a housing, the switching ring gear (16) is rotationally coupled to the planet gears on the planet carrier of the second stage (13) and simultaneously to the planet gears on the planet carrier of the third stage (14).

IPC 8 full level
B25B 21/00 (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP US)
B25B 21/00 (2013.01 - EP US); **B25F 5/001** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
DE 102008043795 A1 20100520; CN 102216033 A 20111012; EP 2358502 A1 20110824; EP 2358502 B1 20180523;
RU 2011124151 A 20121227; US 2011275471 A1 20111110; US 8545363 B2 20131001; WO 2010054916 A1 20100520

DOCDB simple family (application)
DE 102008043795 A 20081117; CN 200980145927 A 20091021; EP 09736979 A 20091021; EP 2009063776 W 20091021;
RU 2011124151 A 20091021; US 200913129695 A 20091021