Title (en)
HANDHELD MACHINE TOOL AND CONTROL METHOD

Title (de)
HANDWERKZEUGMASCHINE UND STEUERUNGSVERFAHREN

Title (fr)
MACHINE-OUTIL PORTATIVE ET PROCÉDÉ DE COMMANDE

Publication
EP 3160689 B1 20181212 (DE)

Application
EP 15731912 A 20150625

Priority
• EP 14174696 A 20140627
• EP 2015064353 W 20150625

Abstract (en)
[origin: WO2015197753A1] The invention relates to a hand-held power tool having a tool receptacle (2) for accommodating a tool insert (4) along a working axis (11), a motor (5), and a blocking-body coupling (21) having a quantity of blocking bodies. A sensor (27) is used to record a measurement signal (28) as a measure of vibrations within the hand-held power tool (1). A bandpass filter (29) has a passband in which a frequency equal to the product of the rotational speed of the drive-side wheel (22) having the quantity N of the blocking bodies (24) lies. The measurement signal (28) filtered by the bandpass filter (29) is fed to an evaluating unit (30). If a limit value is exceeded by the filtered measurement signal (28), the evaluating unit (30) reduces the rotational speed of the motor (5).

IPC 8 full level
B25F 5/00 (2006.01); **B25D 16/00** (2006.01)

CPC (source: CN EP US)
B25D 11/12 (2013.01 - US); **B25D 16/003** (2013.01 - CN EP US); **B25F 5/001** (2013.01 - CN EP US); B25D 2211/068 (2013.01 - CN EP US); B25D 2250/205 (2013.01 - CN EP US); B25D 2250/221 (2013.01 - CN EP US)

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2960021 A1 20151230; CN 106457541 A 20170222; EP 3160689 A1 20170503; EP 3160689 B1 20181212; US 10751866 B2 20200825; US 11123854 B2 20210921; US 2017129089 A1 20170511; US 2019337137 A1 20191107; WO 2015197753 A1 20151230

DOCDB simple family (application)
EP 14174696 A 20140627; CN 201580031188 A 20150625; EP 15731912 A 20150625; EP 2015064353 W 20150625; US 201515321982 A 20150625; US 201916517317 A 20190719