

Title (en)

DAMPING DEVICE, MACHINE TOOL HAVING A DAMPING DEVICE AND METHOD FOR PRODUCING A DAMPING DEVICE

Title (de)

DÄMPFUNGSVORRICHTUNG, WERKZEUGMASCHINE MIT EINER DÄMPFUNGSVORRICHTUNG UND VERFAHREN ZUR HERSTELLUNG EINER DÄMPFUNGSVORRICHTUNG

Title (fr)

DISPOSITIF D'AMORTISSEMENT, MACHINE-OUTIL ÉQUIPÉE D'UN DISPOSITIF D'AMORTISSEMENT ET PROCÉDÉ POUR PRODUIRE UN DISPOSITIF D'AMORTISSEMENT

Publication

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Application

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Abstract (en)

[origin: WO2011054579A1] The invention relates to a damping device (99) for damping vibrations, in particular in handheld machine tools, having a spring element (100, 101, 102, 103, 104). According to the invention, the spring element (100, 101, 102, 103, 104) has at least to regions (130, 140, 230, 240, 330, 340, 430, 440) which differ in at least one element parameter and/or one material parameter.

IPC 8 full level

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Citation (search report)

See references of WO 2011054579A1

Citation (examination)

- EP 1335146 A1 20030813 - BARNES GROUP INC [US]
- DE 29612394 U1 19971113 - GIERSEIPEN GIRA GMBH [DE]
- JP H11159551 A 19990615 - TAMA SPRING KK
- JP H0749082 A 19950221 - HUGHES AIRCRAFT CO
- DE 10324344 A1 20031218 - VISTEON GLOBAL TECH INC [US]

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