

Title (en)

VARIATION OF THE NATURAL FREQUENCY OF VIBRATORY MEANS IN ELECTRIC TOOLS

Title (de)

VARIATION DER EIGENFREQUENZ VON SCHWINGUNGSMITTELN IN ELEKTROWERKZEUGEN

Title (fr)

VARIATION DE LA FRÉQUENCE PROPRE DE MOYENS DE VIBRATION DANS DES OUTILS ÉLECTRIQUES

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Application

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Abstract (en)

[origin: WO2011064028A1] The present invention relates to an electric tool (1) having a vibratory means (58) which is provided for imparting a counteracting vibration (103) which counteracts a housing vibration (100) of the electric tool (1), wherein a vibration-relevant characteristic (Wo, 51, Kf, 112-115, 106, 52) of the vibratory means (58) can be adapted during the operation of the electric tool (1) in such a way that the amplitude (104), the phase position and/or the frequency (1/T) of the counteracting vibration (103) varies with a change in the vibration-relevant characteristic. The present invention also relates to an electric tool (1) which is in particular in accordance with the invention and whose vibratory means (58) have a natural frequency which can be varied by variation means of the electric tool (1). The present invention also relates to a method for compensating housing vibrations (100), in particular of the electric tool (1) according to the invention, having a vibratory means (58) which is provided for imparting a counteracting vibration (103) which counteracts a housing vibration (100) of the electric tool (1), wherein the amplitude, the phase position and/or the frequency of the counteracting vibration (103) is varied during the operation of the electric tool (1).

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