

Title (en)
Anti-vibration arrangement

Title (de)
Antiruckelvorrichtung

Title (fr)
Dispositif anti-vibration

Publication
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Application
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Abstract (en)
[origin: EP1586416A2] The present invention relates to an anti-vibration arrangement (10) for a power sander (1) which comprises a housing (2), a motor (4) arranged in the housing (2), a rotary drive shaft (11), a first outer or ring-shaped pad surface (16) for attaching a first sanding paper (8) and a second inner or circular pad surface (22) for attaching a second sanding paper (9). The anti-vibration arrangement (10) serves to transfer energy from the motor (4) to the pads (16, 22) with out-of-phase motions to dynamically compensate for inertial and friction forces. For this purpose, twin cams (18a, 18b) are fixed on the rotary drive shaft (11). The cams (18a, 18b) rotate the central axes (15, 21) of the pads (16, 22) about the rotary drive shaft axis (12) with a phase differential of typically 180°. Vibration which would otherwise be transmitted to the rotary drive shaft (11) and from there to the operator of the machine (1) are drastically reduced irrespective of whether or not the operator increases the applied force (1) in order to increase the sanding depth or to speed up the sanding operation.

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Cited by
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