

Title (en)
Anti-vibration mechanism for vibrating body

Title (de)
Antischwingungsmechanismus für Schwingungskörper

Title (fr)
Mécanisme anti-vibrant pour corps vibrant

Publication
EP 0695824 B1 19990512 (EN)

Application
EP 94111978 A 19940801

Priority
• EP 94111978 A 19940801
• JP 1494293 A 19930201

Abstract (en)
[origin: EP0695824A1] This invention relates to an anti-vibration mechanism supporting a vibrating body in a frame by a spring and a damper (9), and may be applied for example to a drum-type washing machine provided with a wash tank (3) that rotates about a horizontal axis. The damper has connections with the vibrating body (3) and frame (1), and a mechanism which creates a certain amount of clearance in one of these connections is provided. Further provided is a mechanism for supporting the damper on the frame such that it maintains the damper in any existing rotation position, but allows the damper to rotate when a rotating force higher than a predetermined level is applied to the damper. In the case of a washing machine, for example, the amount of clothes changes or the weight changes during washing or pumping of water. Accordingly the damper contracts or elongates as well as rotating to support the drum accommodating the wash tank. On the other hand, as there is always a predetermined amount of clearance in one of the connections, transmission of low amplitude vibrations via the damper is completely insulated while high amplitude vibrations beyond the clearance is effectively attenuated by the damper. <MATH>

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