

Abstract**VIBRATION ABSORBER FOR DAMPING MECHANICAL VIBRATIONS**

The invention relates to a vibration absorber (6) for damping mechanical vibrations of a structure (1) which is capable of vibration at least in some portions. The vibration absorber comprises at least two rod-shaped vibrating elements (11), which each have a longitudinal axis (L), and a support module (7). The support module (7) comprises at least two non-parallel support plates (8, 9; 8, 9a, 9b) and an attachment device (29). In this case, for the purpose of attaching the vibration absorber (6) to the structure (1), the attachment device (29) is constructed in such a way that mechanical vibrations of the structure (1) can be passed into at least a first (8) of the support plates. The support plates (8, 9; 8, 9a, 9b) are interconnected in such a way that the mechanical vibrations can be transferred from the first support plate (8) to a second (9; 9a) of the support plates. A first vibrating element (11a) is coupled at a first position (30a) along the longitudinal axis (L) of the first vibrating element (11a) to the first support plate (8) in order to transfer the mechanical vibrations from the first support plate (8) to the first vibrating element (11a). In addition, a second vibrating element (11b) is coupled at a second position (30b) along the longitudinal axis (L) of the second vibrating element (11b) to the second support plate (9; 9a) in order to transfer the mechanical vibrations from the second support plate (9; 9a) to the second vibrating element (11b).

(Fig. 7)