Coupling Device for Coupling Vibration Systems

Abstract

A coupling device (130) for coupling a plurality of vibration systems (110, 120), which are mounted above a substrate (200) in such a manner that said systems can vibrate along a first direction (x) and are offset with respect to one another in a second direction (y) perpendicular to the first direction (x), has a flexural beam spring (135) which can bend in the first direction (x) and can be connected to the vibration systems (110, 120); in this case, connections (112, 122) between the flexural beam springs (135) and the vibration systems (110, 120) are arranged between at least two connection points (140) of the flexural beam springs (135) to the substrate (200) in such a manner that a deflection of the flexural beam springs (135) which is caused by movements of the vibration systems (110, 120) results in a vibration of the flexural beam springs (135) with antinodes of vibration in the region of the connections (112, 122) between the flexural beam springs (135) and the vibration systems (110, 120).

Fig. 1B