

Coupling device for coupling vibration systems

Abstract

A coupling device (100) for coupling two vibration systems (210, 220), which are mounted over a substrate such that the vibration systems are linearly arranged along a first direction (x) and can vibrate along the first direction (x), has a closed spring structure (110), which can be connected to the vibration systems (210, 220) at outer faces lying opposite each other along the first direction (x), and an anchor structure (120), which is rigidly connected to the substrate and which is arranged within the closed spring structure (110) and is connected to the spring structure (110) at two inner faces lying opposite each other along a second direction (y) that is orthogonal to the first direction. In this manner, the coupling device (100) connected to the vibration systems (210, 220) imparts a differential-mode coupling to the vibration systems (210, 220) as the mode with the lowest frequency.

Figure 2