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[54] PASSIVE VIBRATION ISOLATION PLATFORM 被動隔振平台

[57] Passive vibration isolation platform relates to the vibration isolation platform technical field, and provides a passive vibration isolation platform, which comprises a top plate, a bottom plate; and a vibration isolation device arranged between the top plate and bottom plate. The vibration isolation device includes an upper guide rail mechanism mounted on the top plate, a lower guide rail mechanism mounted on the bottom plate and corresponding to the upper guide rail mechanism and an X-shaped link mechanism which is movably connected between the upper guide rail mechanism and the lower guide rail mechanism and is folded to contract when pressed; the X-shaped link mechanism includes at least two groups of parallel connecting rods, top portions of each group of connecting rods are connected to the upper guide rail mechanism, bottom portions of each group of connecting rods are connected to the lower guide rail mechanism. The at least two groups of connecting rods are provided with corresponding hinge positions, the X-shaped link mechanism further includes guide rods hinged with the corresponding hinge positions of the at least two groups of connecting rods, an elastic element is connected between the guide rods. Compared with the existing technology, the passive vibration isolation platform provided by the utility model, has the good bearing capacity and stability.

被動隔振平臺實用新型涉及隔振平臺的技術領域，提供了一種被動隔振平臺，其中，包括頂板、底板以及設置在頂板和底板之間的隔振裝置；隔振裝置包括安裝在頂板上的上導軌機構、安裝在底板上與上導軌機構對應的下導軌機構以及活動連接於上導軌機構和下導軌機構之間並於受壓時折疊收縮的 X 型連杆機構；X 型連杆機構包括至少兩組相互平行的連杆排，每組連杆排的頂端部與上導軌機構連接，底端部與下導軌機構連接；至少兩組連接排形成有對應的鉸接位，X 型連杆機構還包括鉸接於至少兩組連杆排的相對應的鉸接位上的導杆，導杆之間連接有彈性元件。與現有技術對比，本實用新型提供的被動隔振平臺，具有良好的承載能力和穩定性。

