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[54] VIBRATION-ISOLATING DEVICE 隔振裝置

[57] The present application provides a vibration-isolating device, which includes: a horizontal stiffness-damping mechanism configured to provide stiffness and damping, a linkage mechanism configured to adjust the stiffness and the damping, an upper torsional platform configured to connect with a vibration-isolated object and realize multi-angle torsion and vibration isolation, and a lower torsional platform configured to connect with a vibration source and realize multi-angle torsion and vibration isolation. The linkage mechanism is connected between the upper torsional platform and the lower torsional platform, and the horizontal stiffness-damping mechanism is arranged at the linkage mechanism. The vibration-isolating device provided by the present application has adjustable stiffness and damping and can realize multi-angle torsion and vibration isolation, such that the vibration isolation effect of the vibration-isolating device are obviously improved, the vibration-isolating device has broader application range, is applicable to different working conditions, and possesses good bearing capacity and stability.

本實用新型提供了一種隔振裝置，包括用於提供剛度與阻尼的水平剛度阻尼機構、用於調節所述剛度與阻尼大小的連杆機構、用於與隔振對象連接的可實現多個角度扭轉隔振效果的上扭轉平台、用於與振動源連接的可實現多個角度扭轉隔振效果的下扭轉平台、所述連杆機構連接在所述上扭轉平台與所述下扭轉平台之間，所述水平剛度阻尼機構設於所述連杆機構上。本實用新型提供的隔振裝置具有可調節的剛度與阻尼大小，且可實現多個角度扭轉隔振效果，使得本實用新型的隔振裝置的隔振效果得到明顯改進，適用範圍更廣，能夠適用於不同的工作情況，具有良好的承載能力和穩定性。

