

Title (en)

SUSPENSION OF SENSOR COMPONENTS IN HIGH SHOCK APPLICATIONS

Title (de)

AUFHÄNGUNG VON SENSOR-KOMPONENTEN IN ANWENDUNGEN MIT HOHER STOSSBELASTUNG

Title (fr)

SUSPENSION DE COMPOSANTS DE CAPTEUR DANS DES APPLICATIONS À RISQUE DE CHOCS ÉLEVÉS

Publication

EP 3194191 B1 20200617 (EN)

Application

EP 14902202 A 20140917

Priority

US 2014056176 W 20140917

Abstract (en)

[origin: WO2016043741A1] A suspension assembly for supporting a shock-sensitive component includes an outer housing and a plurality of radial canted coil springs that surround and support the shock-sensitive component. Each of the plurality of radial canted coil springs is preferably a toroid. The exterior of each of the plurality of radial canted coil springs is in contact with the outer housing and the interior of each of the plurality of canted radial canted coil springs is in contact with the exterior of the shock-sensitive component. The radial canted coil springs dampen mechanical shock and vibration applied in a lateral direction. The suspension assembly optionally includes an axial canted coil spring that dampens mechanical shock in the axial direction. The outer housing may include grooves that locate the radial canted coil springs within the suspension assembly.

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