

Title (en)

MULTISTRUCTURAL SHOCK ABSORBING SYSTEM FOR ANATOMICAL CUSHIONING

Title (de)

MULTISTRUKTURELLES STOSSDÄMPFUNGSSYSTEM FÜR ANATOMISCHE POLSTERUNG

Title (fr)

SYSTÈME D'AMORTISSEMENT DES CHOCS À STRUCTURES MULTIPLES POUR REMBOURRAGE ANATOMIQUE

Publication

EP 4077964 A1 20221026 (EN)

Application

EP 20903400 A 20201214

Priority

- US 201916716331 A 20191216
- US 2020064861 W 20201214

Abstract (en)

[origin: WO2021126768A1] A shock absorbing system (128) for force attenuation, impact modification or reduction, employs an envelope (140) having a chamber (145) containing a first working fluid, the envelope deformable in response to the impulse to attenuate impact force. A plurality of resilient supplemental absorber elements (136, 138) dispersed within the chamber. The plurality of resilient supplemental absorber elements are deformable in response to the force to assist in attenuating impact force and provide additional resilient restoring force to return the envelope to a pre-impact shape. In alternative implementations, a unitary cell (128) for energy dissipation employs an envelope (140) having a chamber (145) containing a first working fluid and an inner element (150) contained within the chamber and having an inner chamber (152) containing a second working fluid.

IPC 8 full level

F16F 13/20 (2006.01)

CPC (source: EP)

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