

Title: Rocket tank energy absorber

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Absorber Device ( READ ) gradually absorbs the major portion of the kinetic energy of an aircraft during the runout distance. The connection of the READ with the net is made by means of purchase tape. ...

Orbital rocket propellant tanks are primarily pressurized to maintain the tank's structural integrity by keeping it rigid, as well as replacing the void created by propellants being pumped out of the tank at ...

A device is disclosed for cushioning the damaging effect of the energy released in ZOT explosions within the oxidizer injector of a rocket motor. A sliding piston is cushioned by a viscoelastic...

Who Needs Rocket Tank Energy Absorbers? (Spoiler: Everyone) Ever wondered how rockets survive the violent shakes during launch? Think of energy absorbers as the shock-absorbing ...

A rocket's turbulent jet radiates intense acoustic waves, which are an acoustic load for structural components like payload, launch structure, and rocket avionics, and impact communities near ...

Nut recontact with the stud has been identified as a likely contributor to stud hangups. This upgrade will replace the lead liner with an aluminum foam material. The aluminum foam used as a ...

Manufacturing of the additively manufactured lattice structures using shape memory alloys with reversible energy absorption capabilities will enable to produce efficient and re-usable ...

NASA researchers used the Rocket Systems Area sites to examine methods for insulating cryogenic propellant tanks to prevent fuel evaporation during launch and over time in space on long ...

Meet the energy storage rocker arm - the mechanical world's answer to a Swiss Army knife. But unlike that pocket-sized tool, this bad boy doesn't just open wine bottles. It stores energy, reduces waste, ...

These two bolt catchers are ready for installation on orbiter Discovery's External Tank. Though the bolt



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catcher is mounted on the External Tank, it is considered part of the Solid Rocket Booster element ...

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