

Energy accumulator clutch

Although all of these applications benefit from a spring which can store energy, current lockable spring designs face limitations because clutches introduce design complexity, add mass, reduce energy ...

An accumulator transmission is a critical component of a vehicle's transmission system, responsible for storing and supplying energy to the gearbox. It acts as a battery-like device, providing extra power ...

The capstan clutch can lock up to 1000N force at any arbitrary deflection, unlock the spring in less than 10ms with a control force less than 1% of the maximal spring force, and provide an ...

By retaining the form factor of a regular spring while providing high-fidelity locking capability even under large spring forces, the proposed design could facilitate the development of energy-efficient spring ...

When there is a demand for hydraulic energy, the pressurized fluid is released from the accumulator, pushing the piston back and providing the required energy to the system. Explaining the operation of ...

An accumulator is a crucial component in many mechanical systems, serving the purpose of storing and releasing energy as needed. It is designed with the intention of acting as a reservoir, collecting and ...

An automobile or other wheeled vehicle includes various hydraulic components, including a hydraulic gearbox, transmission, clutch, and brake energy recovery system. Such hydraulic components ...

Its kinetic energy is transferred to the inner rotor - driving it. This energy transfer is regulated by precise control of the current fed into the DC winding. The accumulator for the kinetic ...

An accumulator typically consists of a cylinder with a piston and a storage chamber filled with a fluid, either gas or liquid. When the system generates excess power, the excess energy is used to ...

The invention relates to a kinetic energy accumulator, comprising a plurality of rotatably mounted accumulator members (100, 198) positioned adjacent one another, an input drive mechanism (116) ...

That means more space for your business. Utilizing advanced kinetic energy technology, these systems integrate a diesel engine with a kinetic energy accumulator via an electromagnetic clutch.

