



Patent application for compressed air solar container system

This application claims priority to U.S. Provisional Patent Application 63/036,447, filed June 9, 2020, entitled "A Hydraulic Compressed Air Energy Storage (CAES) System," and to U.S. Provisional ...

Two solar receiving panels are used to heat water which can be circulated and stored within an annulus surrounding the inner vessel, wherein the heated water can help regulate the temperature of the ...

Disclosed is an energy storage system using supercritical air, comprising a compressor unit, a heat exchanger and storage device, a cold exchanger and storage device, a cryogenic tank, a ...

At the core of a compressed air UPS system lies a scroll expander, a sophisticated proprietary mechanical component that operates similarly to a traditional scroll compressor. However, ...

During energy release process, the high pressure air stored in the compressed air storage first passes through the combustion chamber, burned mixed with fuel and become high ...

A compressed air generation system that provides compressed air for a variety of applications including generation electricity. An optional application is a water-based system that uses a submerged piston ...

Disclosed is an energy storage system using supercritical air, comprising a compressor unit, a heat exchanger and storage device, a cold exchanger and storage device, a cryogenic tank, a throttling ...

This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Compressed air-related invention patents and utility model patents, ...

During an adiabatic compressed air energy storage (ACAES) system's operation, energy imbalances may arise between thermal energy storage (TES) in the system and the thermal energy required to ...

A hybrid compressed air/water energy storage system is described. The system includes a series of water containers and a plurality of inflatable bladders held within each container. ...

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