

Natural Convection Fluoride Salt High Temperature Reactor Process Heat System

Disclosure Number

201002368

Technology Summary

The present invention is an overall design for a nuclear reactor that provides high-temperature thermal energy for conversion to electricity and for use in a variety of industrial process heat applications such as, for example, powering refineries, oil shale processing, hydrogen production, and production of synfuels from coal. The new nuclear reactor design employs a molten salt coolant in a natural Convection configuration. The design also includes a novel feature called a "liquid salt vault" for heat storage.

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